

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458448

Luminaire Tested: **GALN-SA9D-760-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-760-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 69546 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

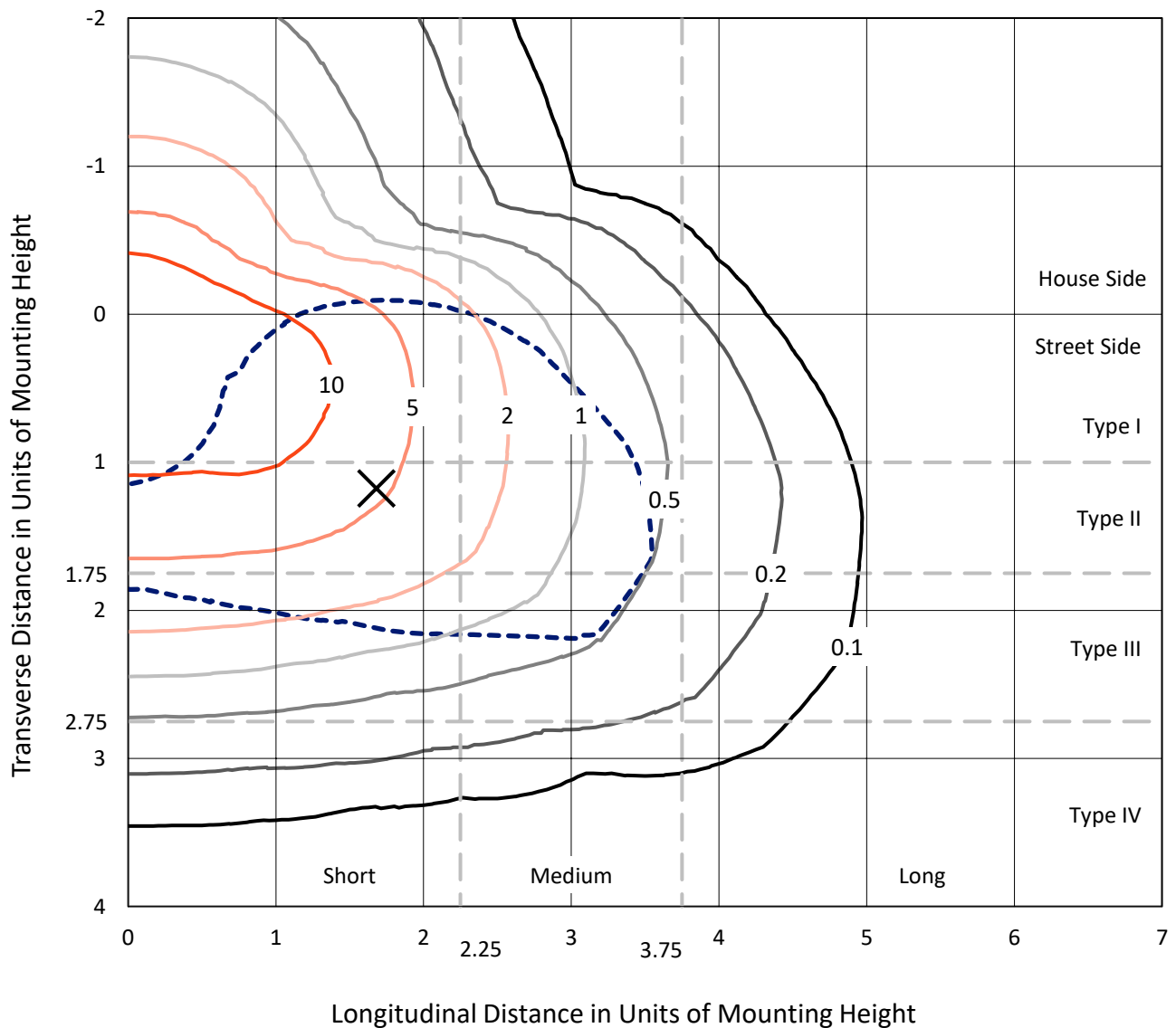
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

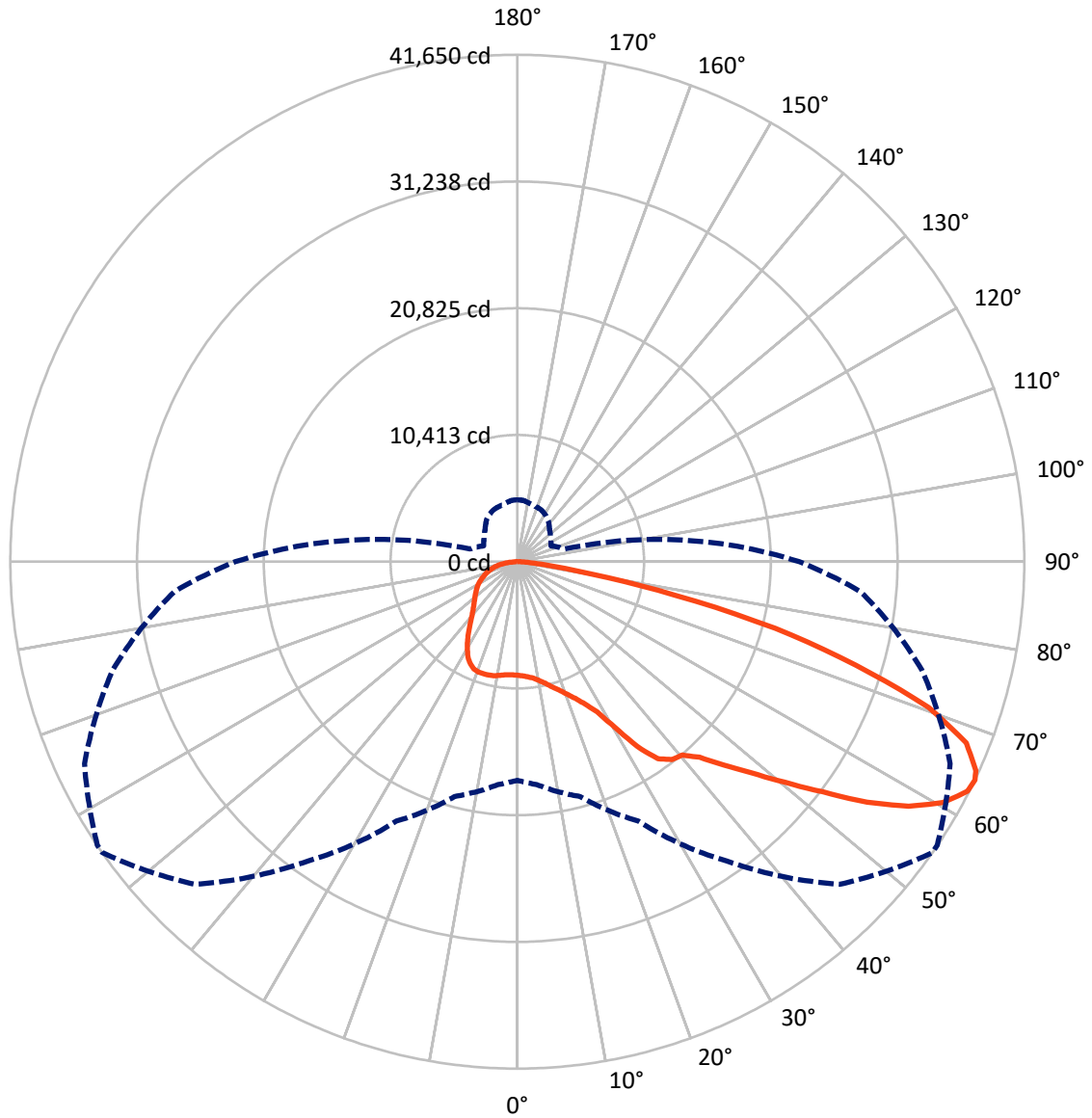
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16894.1	0.0	16894.1
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	52651.9	0.0	52651.9
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	69546.0	0.0	69546.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	907.7	1.3
10°-20°	2863.9	4.1
20°-30°	5098.6	7.3
30°-40°	7844.7	11.3
40°-50°	11120.4	16.0
50°-60°	16096.6	23.1
60°-70°	16658.2	24.0
70°-80°	7801.1	11.2
80°-90°	1154.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	69546.0	100.0
0°-180°	69546.0	100.0

**Coefficient of Utilization**



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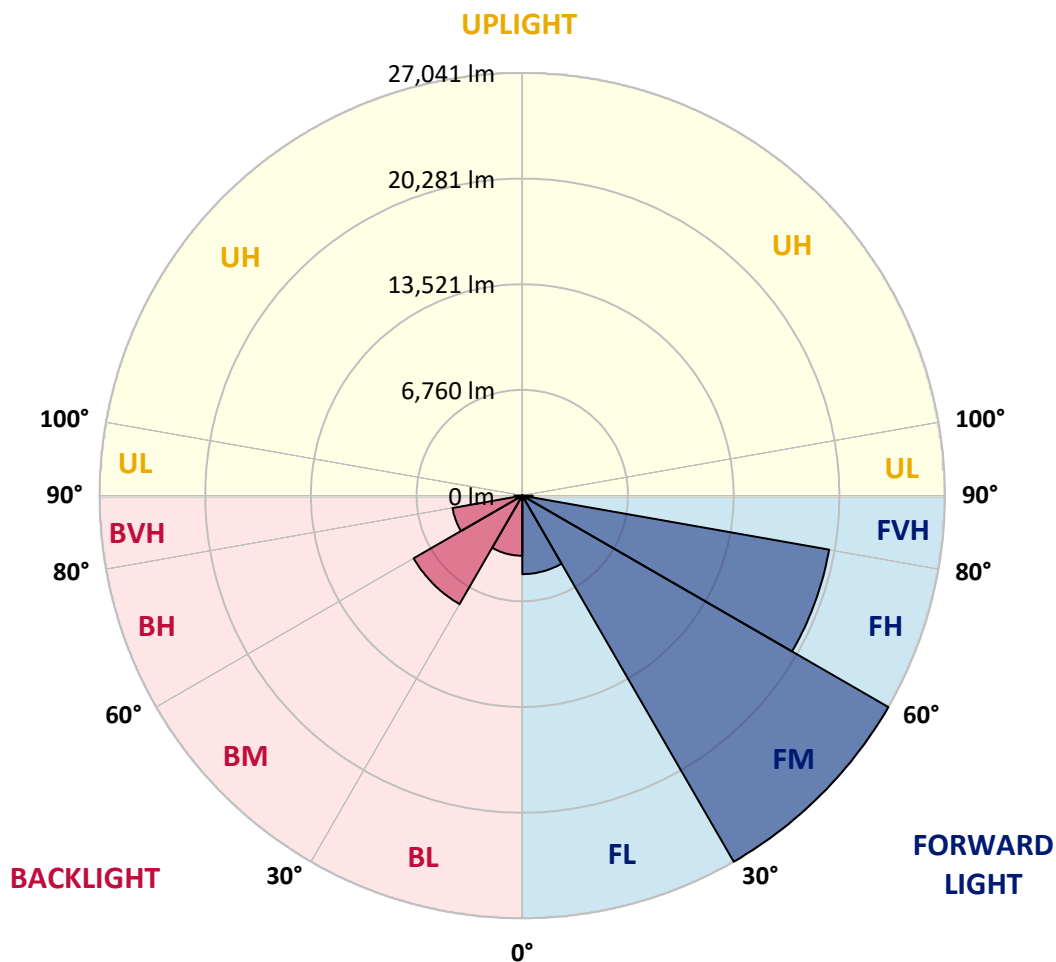
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5022.3	7.2			
FM	(30°-60°)	27041.4	38.9			
FH	(60°-80°)	19927.0	28.7			G5
FVH	(80°-90°)	661.2	1.0			G4/750
BL	(0°-30°)	3847.8	5.5	B4/5000		
BM	(30°-60°)	8020.3	11.5	B4/8500		
BH	(60°-80°)	4532.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	493.6	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0
2.5°	9435.6	9431.8	9443.4	9431.8	9439.5	9412.4	9400.8	9408.5	9396.9	9377.5	9342.6
5°	9551.9	9548.1	9551.9	9536.4	9544.2	9528.7	9501.5	9509.3	9489.9	9447.3	9396.9
7.5°	9749.6	9734.1	9734.1	9730.3	9714.8	9691.5	9672.1	9664.4	9645.0	9590.7	9513.2
10°	10005.5	10005.5	10009.4	9978.4	9997.7	9955.1	9935.7	9931.8	9865.9	9796.2	9687.6
12.5°	10342.8	10362.1	10350.5	10335.0	10327.3	10311.8	10245.9	10261.4	10187.7	10067.5	9935.7
15°	10761.4	10792.5	10773.1	10765.3	10745.9	10687.8	10660.6	10649.0	10552.1	10377.7	10203.2
17.5°	11315.8	11277.0	11261.5	11242.1	11160.7	11118.1	11071.6	11063.8	10978.5	10773.1	10501.7
20°	11800.4	11854.6	11823.6	11804.2	11722.8	11641.4	11606.5	11594.9	11521.3	11296.4	10862.2
22.5°	12378.0	12389.6	12401.2	12354.7	12316.0	12253.9	12191.9	12172.5	12145.4	11912.8	11381.7
25°	12994.4	13040.9	13002.1	12955.6	12909.1	12905.2	12963.3	12955.6	12944.0	12719.1	12071.7
27.5°	13998.4	14041.0	14052.7	14002.3	13824.0	13839.5	13971.3	14013.9	14192.2	13820.1	12959.5
30°	14564.4	14607.0	14703.9	14893.9	15176.9	15425.0	15742.9	15839.8	16010.4	15308.7	14013.9
32.5°	14913.3	14928.8	15103.2	15456.0	16305.0	17231.5	18096.0	18130.9	18239.4	17254.7	14979.2
35°	15463.8	15475.4	15614.9	16002.6	16998.9	18541.8	19879.2	19921.8	19832.7	17859.5	15428.9
37.5°	16142.2	16173.2	16262.3	16584.1	17774.2	19638.9	20619.6	20588.6	19797.8	18340.2	16223.6
40°	17130.7	17130.7	17026.0	17460.2	18592.2	20266.9	20879.4	20825.1	20615.8	19731.9	17433.1
42.5°	18002.9	17987.4	18235.5	18530.1	19615.6	21236.0	21968.7	22057.8	22402.9	21480.2	18809.3
45°	19138.8	19208.5	19348.1	19883.1	21356.2	22891.3	23837.2	23922.5	24410.9	23538.7	20418.0
47.5°	20286.2	20309.5	20747.6	21460.9	23511.6	25135.9	25911.2	26050.7	26496.6	25946.1	22150.9
50°	21100.3	21321.3	22023.0	23147.2	25732.9	27872.7	28477.5	28644.2	29431.1	28566.7	24170.6
52.5°	21960.9	22178.0	23034.8	24748.2	28283.7	30671.7	31416.0	31528.4	32346.3	31218.3	26236.8
55°	22697.5	22899.1	23872.1	26167.0	30315.0	33528.7	34877.8	34746.0	35137.5	33261.2	27830.1
57.5°	22817.7	22980.5	24205.5	27074.2	31842.4	35978.7	37913.1	37990.7	37537.1	34788.6	29144.3
60°	21887.3	22220.7	23627.9	26977.3	32528.5	37684.4	40177.1	40231.3	38944.3	35571.7	29667.6
62.5°	20239.7	20204.8	21906.7	25418.9	31567.1	38072.1	41510.6	41452.5	39494.8	35195.6	29159.8
64°	17964.2	18382.8	19972.2	23503.8	30016.5	37475.1	41650.2	41619.2	39231.2	34412.6	28295.3
65°	16576.3	16553.1	18123.1	21937.7	28473.6	36575.7	41402.1	41359.4	38680.7	33710.9	27624.6
67.5°	11967.1	12021.3	13572.0	16929.1	23147.2	33059.6	39785.5	39626.6	36509.8	31384.9	25073.8
70°	7249.2	7280.3	8497.5	11230.5	16615.1	26725.3	35862.4	35870.2	33187.6	27911.5	21340.7
72.5°	3818.5	3899.9	4388.3	6377.0	10090.8	18751.1	29093.9	29783.9	28493.0	23821.7	16859.3
75°	2124.4	2136.0	2481.0	3143.9	5148.1	10494.0	21867.9	22065.6	22557.9	19173.7	12467.1
77.5°	1620.4	1643.7	1752.2	2031.3	2802.8	4865.1	13234.7	14227.1	15897.9	13517.7	7113.6
80°	1314.2	1337.4	1430.5	1597.2	1864.6	2306.6	6148.3	6683.3	8509.1	6001.0	2775.6
82.5°	1023.4	1007.9	1128.1	1236.6	1356.8	1364.6	2523.7	2791.2	3465.7	2581.8	1201.7
85°	759.8	759.8	856.7	833.5	876.1	798.6	1112.6	1228.9	1387.8	1097.1	558.2
87.5°	302.4	333.4	562.1	504.0	391.5	314.0	410.9	434.2	480.7	430.3	232.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0	9331.0
2.5°	9346.5	9358.1	9331.0	9311.6	9303.8	9292.2	9280.6	9284.5	9300.0	9315.5	9311.6
5°	9393.0	9396.9	9350.4	9327.1	9311.6	9296.1	9296.1	9307.7	9338.7	9362.0	9362.0
7.5°	9509.3	9509.3	9443.4	9400.8	9377.5	9350.4	9342.6	9346.5	9369.7	9400.8	9404.6
10°	9691.5	9676.0	9590.7	9524.8	9482.2	9416.3	9358.1	9327.1	9338.7	9358.1	9358.1
12.5°	9912.5	9869.8	9761.3	9672.1	9567.4	9443.4	9323.2	9261.2	9257.3	9276.7	9268.9
15°	10148.9	10102.4	9951.2	9788.4	9606.2	9424.0	9280.6	9191.4	9121.6	9102.3	9144.9
17.5°	10424.2	10327.3	10117.9	9893.1	9621.7	9385.2	9160.4	8978.2	8854.2	8819.3	8830.9
20°	10757.6	10629.6	10346.6	9993.9	9610.1	9245.7	8896.8	8652.6	8451.0	8389.0	8396.7
22.5°	11218.9	10997.9	10583.1	10044.3	9513.2	8982.1	8497.5	8179.6	7935.4	7838.5	7896.6
25°	11742.2	11501.9	10808.0	10032.6	9261.2	8559.5	8024.6	7609.8	7388.8	7245.4	7276.4
27.5°	12463.3	12036.8	11048.3	9928.0	8900.7	8043.9	7423.7	7032.2	6830.6	6756.9	6791.8
30°	13385.9	12730.8	11308.0	9645.0	8330.8	7392.7	6818.9	6563.1	6442.9	6349.9	6380.9
32.5°	14052.7	13219.2	11366.2	9168.2	7714.4	6799.6	6408.0	6218.1	6086.3	5997.1	6016.5
35°	14529.5	13634.0	11339.1	8582.8	7070.9	6311.1	6082.4	5927.3	5714.1	5520.3	5485.4
37.5°	15169.1	14153.5	11141.3	7943.2	6435.2	5981.6	5818.8	5531.9	5225.7	4965.9	4954.3
40°	16149.9	14762.1	10718.8	7191.1	5892.4	5737.4	5539.7	5167.5	4838.0	4628.7	4613.2
42.5°	17161.7	15324.2	10145.1	6400.3	5446.6	5481.5	5241.2	4872.9	4671.3	4535.6	4520.1
45°	18398.3	15932.8	9524.8	5714.1	5117.1	5241.2	4981.4	4768.2	4648.0	4558.9	4535.6
47.5°	19735.8	16557.0	8827.0	5097.7	4838.0	5020.2	4872.9	4776.0	4710.1	4648.0	4620.9
50°	21177.9	17254.7	8171.9	4601.5	4586.0	4791.5	4861.3	4826.4	4787.6	4768.2	4745.0
52.5°	22759.5	17968.0	7621.4	4252.6	4365.1	4628.7	4865.1	4892.3	4892.3	4880.6	4865.1
55°	23829.5	18464.2	7063.2	3969.6	4140.2	4496.9	4857.4	4962.0	5000.8	4985.3	4969.8
57.5°	24620.3	18735.6	6361.5	3725.4	3950.3	4368.9	4814.7	4969.8	5008.6	5027.9	5020.2
60°	24783.1	18483.6	5442.7	3469.6	3744.8	4182.9	4659.7	4853.5	4903.9	5024.1	5035.7
62.5°	24050.4	17708.3	4527.9	3217.6	3492.8	3899.9	4450.3	4721.7	4822.5	5008.6	5027.9
64°	23151.0	16839.9	4020.0	3058.6	3330.0	3740.9	4345.7	4686.8	4818.6	5066.7	5082.2
65°	22492.0	16208.1	3702.2	2957.8	3225.3	3636.2	4287.5	4698.4	4853.5	5155.9	5179.1
67.5°	20065.3	14033.3	3062.5	2721.4	2977.2	3457.9	4299.1	4795.4	4845.7	5190.8	5186.9
70°	16603.5	11172.4	2566.3	2504.3	2736.9	3314.5	4252.6	4640.3	4644.2	4872.9	4818.6
72.5°	12432.3	8257.2	2225.2	2279.4	2469.4	2973.4	4016.2	4431.0	4365.1	4396.1	4341.8
75°	8540.1	5462.1	1915.0	2039.1	2190.3	2628.3	3682.8	4023.9	3919.2	3880.5	3841.7
77.5°	4558.9	3019.9	1593.3	1802.6	1903.4	2271.7	3213.7	3543.2	3434.7	3283.5	3233.1
80°	1845.3	1422.7	1283.2	1492.5	1550.6	1829.8	2674.9	2880.3	2798.9	2535.3	2450.0
82.5°	926.5	852.9	1007.9	1174.6	1178.5	1306.4	1988.7	2182.5	2000.3	1678.6	1604.9
85°	484.6	500.1	693.9	825.7	728.8	705.5	1194.0	1321.9	1213.4	1054.4	949.8
87.5°	174.4	201.6	364.4	360.5	255.9	135.7	263.6	127.9	69.8	42.6	54.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)