

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: P458361

Luminaire Tested: **GALN-SA9D-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458361
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-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63336 lumens
Efficiency: N/A
Efficacy: 114.7 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

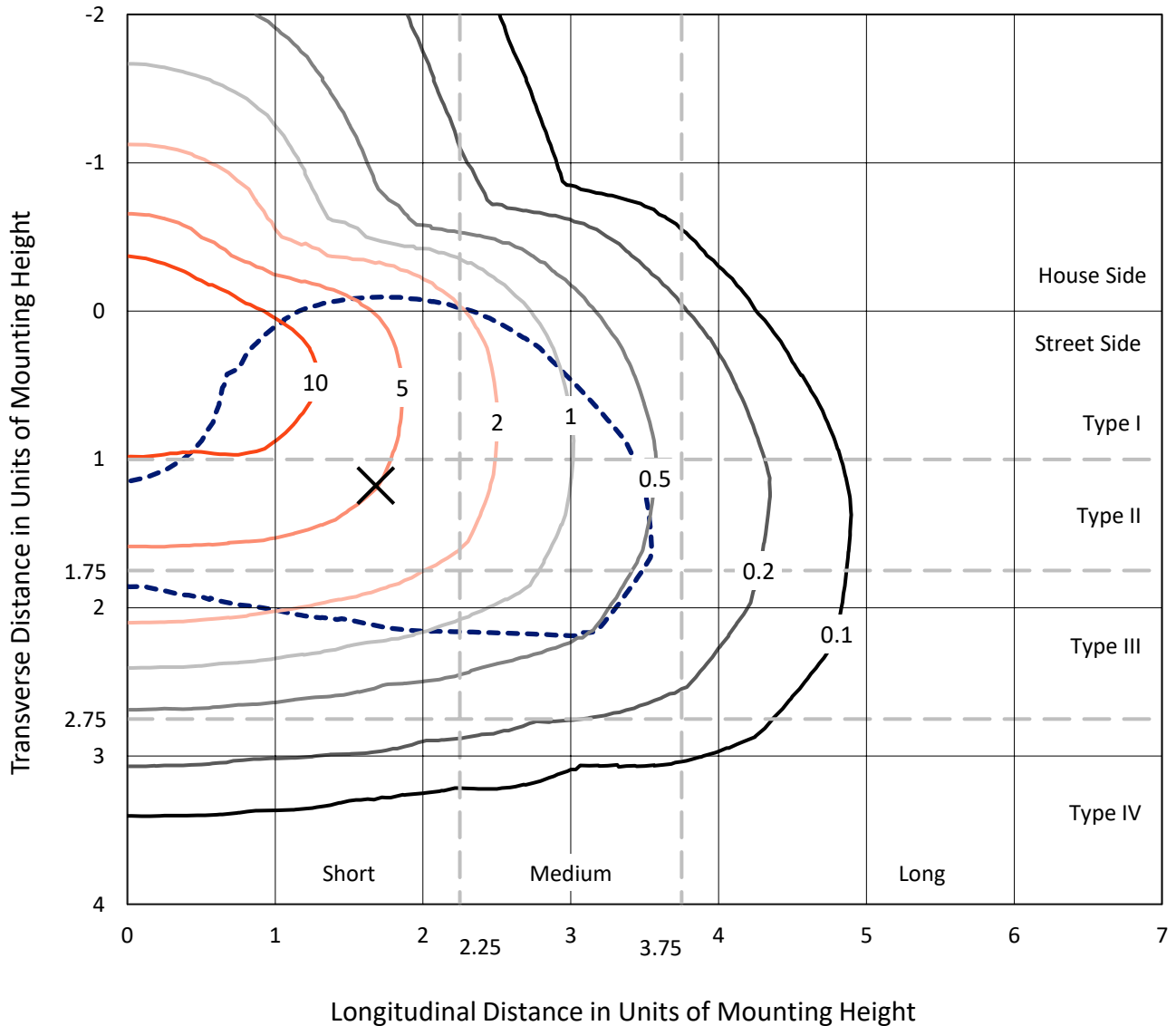
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

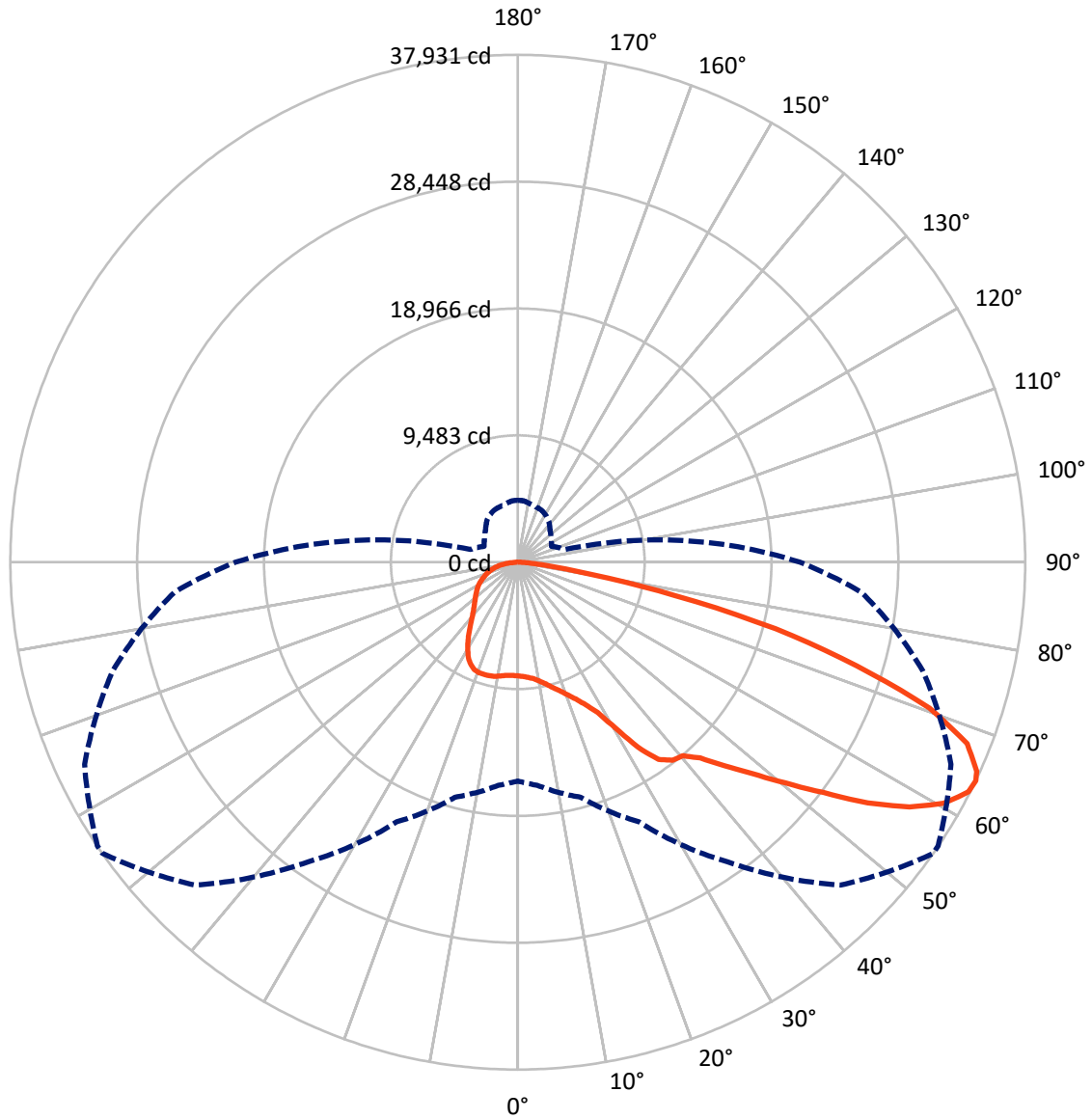
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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
House Side	Lumens	15385.6	0.0	15385.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	47950.4	0.0	47950.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	63336.0	0.0	63336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.6	1.3
10°-20°	2608.2	4.1
20°-30°	4643.3	7.3
30°-40°	7144.2	11.3
40°-50°	10127.5	16.0
50°-60°	14659.3	23.1
60°-70°	15170.8	24.0
70°-80°	7104.5	11.2
80°-90°	1051.7	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°	63336.0	100.0
0°-180°	63336.0	100.0

Coefficient of Utilization



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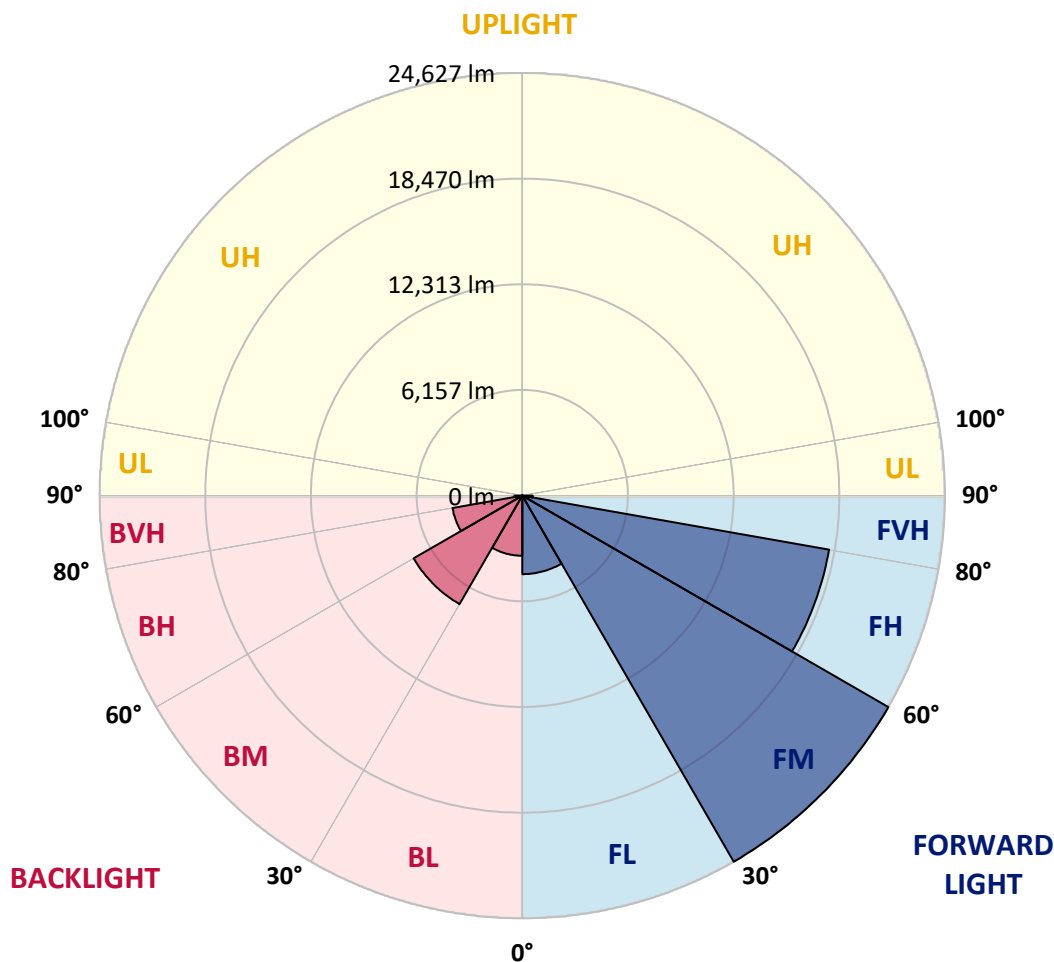
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4573.9	7.2			
FM	(30°-60°)	24626.8	38.9			
FH	(60°-80°)	18147.6	28.7			G5
FVH	(80°-90°)	602.2	1.0			G4/750
BL	(0°-30°)	3504.2	5.5	B4/5000		
BM	(30°-60°)	7304.1	11.5	B4/8500		
BH	(60°-80°)	4127.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	449.5	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°	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8
2.5°	8593.1	8589.6	8600.2	8589.6	8596.6	8571.9	8561.3	8568.4	8557.8	8540.1	8508.4
5°	8699.0	8695.5	8699.0	8684.9	8692.0	8677.8	8653.1	8660.2	8642.5	8603.7	8557.8
7.5°	8879.1	8864.9	8864.9	8861.4	8847.3	8826.1	8808.5	8801.4	8783.7	8734.3	8663.7
10°	9112.1	9112.1	9115.6	9087.4	9105.0	9066.2	9048.5	9045.0	8985.0	8921.4	8822.6
12.5°	9419.2	9436.9	9426.3	9412.2	9405.1	9391.0	9331.0	9345.1	9278.0	9168.6	9048.5
15°	9800.5	9828.8	9811.1	9804.0	9786.4	9733.4	9708.7	9698.1	9609.9	9451.0	9292.1
17.5°	10305.4	10270.1	10255.9	10238.3	10164.1	10125.3	10082.9	10075.9	9998.2	9811.1	9564.0
20°	10746.7	10796.1	10767.9	10750.2	10676.1	10601.9	10570.2	10559.6	10492.5	10287.7	9892.3
22.5°	11272.7	11283.3	11293.9	11251.5	11216.2	11159.7	11103.2	11085.6	11060.9	10849.1	10365.4
25°	11834.0	11876.4	11841.1	11798.7	11756.4	11752.8	11805.8	11798.7	11788.2	11583.4	10993.8
27.5°	12748.4	12787.3	12797.9	12752.0	12589.6	12603.7	12723.7	12762.6	12925.0	12586.0	11802.3
30°	13263.9	13302.7	13391.0	13564.0	13821.7	14047.6	14337.1	14425.4	14580.7	13941.7	12762.6
32.5°	13581.6	13595.7	13754.6	14075.9	14849.0	15692.8	16480.1	16511.9	16610.7	15714.0	13641.6
35°	14082.9	14093.5	14220.6	14573.7	15481.0	16886.1	18104.1	18143.0	18061.8	16264.8	14051.2
37.5°	14700.8	14729.0	14810.2	15103.2	16187.1	17885.2	18778.4	18750.2	18030.0	16702.5	14774.9
40°	15601.0	15601.0	15505.7	15901.1	16932.0	18457.2	19015.0	18965.5	18774.9	17970.0	15876.4
42.5°	16395.4	16381.3	16607.2	16875.5	17864.0	19339.8	20007.0	20088.2	20402.4	19562.2	17129.7
45°	17429.8	17493.4	17620.4	18107.6	19449.2	20847.3	21708.7	21786.4	22231.2	21436.9	18594.9
47.5°	18474.8	18496.0	18894.9	19544.5	21412.1	22891.4	23597.5	23724.6	24130.6	23629.3	20173.0
50°	19216.2	19417.4	20056.5	21080.3	23435.1	25383.9	25934.6	26086.5	26803.1	26015.8	22012.3
52.5°	20000.0	20197.7	20977.9	22538.4	25758.1	27932.9	28610.7	28713.1	29458.0	28430.7	23894.0
55°	20670.8	20854.3	21740.5	23830.5	27608.1	30534.8	31763.4	31643.4	31999.9	30291.2	25345.1
57.5°	20780.2	20928.5	22044.1	24656.6	28999.1	32766.1	34527.7	34598.4	34185.3	31682.2	26541.9
60°	19932.9	20236.5	21518.1	24568.4	29624.0	34319.4	36589.5	36639.0	35466.8	32395.4	27018.5
62.5°	18432.4	18400.7	19950.5	23149.1	28748.4	34672.5	37804.0	37751.0	35968.2	32052.9	26556.0
64°	16360.1	16741.4	18188.8	21405.1	27336.2	34128.8	37931.1	37902.9	35728.1	31339.8	25768.7
65°	15096.2	15075.0	16504.8	19978.8	25931.1	33309.7	37705.1	37666.3	35226.8	30700.7	25157.9
67.5°	10898.5	10947.9	12360.1	15417.5	21080.3	30107.6	36233.0	36088.2	33249.7	28582.5	22834.9
70°	6601.9	6630.2	7738.7	10227.7	15131.5	24338.9	32660.1	32667.2	30224.1	25419.2	19435.1
72.5°	3477.5	3551.6	3996.5	5807.6	9189.7	17076.8	26496.0	27124.4	25948.8	21694.6	15353.9
75°	1934.7	1945.3	2259.5	2863.2	4688.4	9556.9	19915.2	20095.3	20543.7	17461.6	11353.9
77.5°	1475.7	1496.9	1595.8	1850.0	2552.5	4430.7	12052.9	12956.7	14478.4	12310.7	6478.4
80°	1196.8	1218.0	1302.7	1454.5	1698.1	2100.6	5599.3	6086.5	7749.3	5465.1	2527.8
82.5°	932.0	917.9	1027.4	1126.2	1235.7	1242.7	2298.3	2541.9	3156.2	2351.3	1094.4
85°	692.0	692.0	780.2	759.0	797.9	727.3	1013.2	1119.2	1263.9	999.1	508.4
87.5°	275.4	303.6	511.9	459.0	356.6	286.0	374.2	395.4	437.8	391.9	211.8
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°	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8	8497.8
2.5°	8511.9	8522.5	8497.8	8480.1	8473.1	8462.5	8451.9	8455.4	8469.5	8483.7	8480.1
5°	8554.3	8557.8	8515.4	8494.2	8480.1	8466.0	8466.0	8476.6	8504.8	8526.0	8526.0
7.5°	8660.2	8660.2	8600.2	8561.3	8540.1	8515.4	8508.4	8511.9	8533.1	8561.3	8564.9
10°	8826.1	8812.0	8734.3	8674.3	8635.5	8575.4	8522.5	8494.2	8504.8	8522.5	8522.5
12.5°	9027.3	8988.5	8889.7	8808.5	8713.1	8600.2	8490.7	8434.2	8430.7	8448.4	8441.3
15°	9242.7	9200.3	9062.7	8914.4	8748.4	8582.5	8451.9	8370.7	8307.1	8289.5	8328.3
17.5°	9493.4	9405.1	9214.5	9009.7	8762.6	8547.2	8342.4	8176.5	8063.5	8031.8	8042.4
20°	9797.0	9680.5	9422.8	9101.5	8752.0	8420.1	8102.4	7880.0	7696.4	7639.9	7646.9
22.5°	10217.1	10015.9	9638.1	9147.4	8663.7	8180.0	7738.7	7449.2	7226.8	7138.6	7191.5
25°	10693.7	10474.8	9842.9	9136.8	8434.2	7795.2	7308.0	6930.3	6729.0	6598.4	6626.6
27.5°	11350.4	10962.0	10061.8	9041.5	8105.9	7325.7	6760.8	6404.2	6220.6	6153.6	6185.3
30°	12190.6	11594.0	10298.3	8783.7	7586.9	6732.6	6210.1	5977.0	5867.6	5782.9	5811.1
32.5°	12797.9	12038.8	10351.3	8349.5	7025.6	6192.4	5835.8	5662.8	5542.8	5461.6	5479.2
35°	13232.1	12416.6	10326.5	7816.4	6439.5	5747.6	5539.3	5398.0	5203.9	5027.4	4995.6
37.5°	13814.6	12889.7	10146.5	7233.9	5860.5	5447.5	5299.2	5037.9	4759.0	4522.5	4511.9
40°	14707.8	13443.9	9761.7	6549.0	5366.3	5225.1	5045.0	4706.1	4406.0	4215.4	4201.2
42.5°	15629.3	13955.8	9239.2	5828.8	4960.3	4992.0	4773.2	4437.8	4254.2	4130.6	4116.5
45°	16755.5	14510.1	8674.3	5203.9	4660.2	4773.2	4536.6	4342.4	4233.0	4151.8	4130.6
47.5°	17973.5	15078.5	8038.8	4642.5	4406.0	4571.9	4437.8	4349.5	4289.5	4233.0	4208.3
50°	19286.8	15714.0	7442.2	4190.6	4176.5	4363.6	4427.2	4395.4	4360.1	4342.4	4321.3
52.5°	20727.2	16363.6	6940.9	3872.9	3975.3	4215.4	4430.7	4455.4	4455.4	4444.8	4430.7
55°	21701.6	16815.5	6432.5	3615.2	3770.5	4095.3	4423.6	4519.0	4554.3	4540.2	4526.0
57.5°	22421.9	17062.6	5793.5	3392.8	3597.5	3978.8	4384.8	4526.0	4561.3	4579.0	4571.9
60°	22570.1	16833.2	4956.7	3159.7	3410.4	3809.3	4243.6	4420.1	4466.0	4575.5	4586.0
62.5°	21902.9	16127.1	4123.6	2930.3	3180.9	3551.6	4053.0	4300.1	4391.9	4561.3	4579.0
64°	21083.8	15336.3	3661.1	2785.5	3032.7	3406.9	3957.6	4268.3	4388.3	4614.3	4628.4
65°	20483.6	14760.8	3371.6	2693.7	2937.3	3311.6	3904.7	4278.9	4420.1	4695.5	4716.7
67.5°	18273.6	12780.2	2789.1	2478.4	2711.4	3149.2	3915.3	4367.2	4413.1	4727.3	4723.7
70°	15120.9	10174.7	2337.2	2280.7	2492.5	3018.5	3872.9	4225.9	4229.5	4437.8	4388.3
72.5°	11322.1	7519.8	2026.5	2075.9	2248.9	2707.9	3657.5	4035.3	3975.3	4003.5	3954.1
75°	7777.6	4974.4	1744.0	1857.0	1994.7	2393.6	3353.9	3664.6	3569.3	3534.0	3498.7
77.5°	4151.8	2750.2	1451.0	1641.7	1733.4	2068.8	2926.7	3226.8	3128.0	2990.3	2944.4
80°	1680.5	1295.7	1168.6	1359.2	1412.2	1666.4	2436.0	2623.1	2549.0	2308.9	2231.2
82.5°	843.8	776.7	917.9	1069.7	1073.3	1189.8	1811.1	1987.6	1821.7	1528.7	1461.6
85°	441.3	455.4	631.9	752.0	663.7	642.5	1087.4	1203.9	1105.0	960.3	865.0
87.5°	158.9	183.6	331.9	328.3	233.0	123.6	240.1	116.5	63.5	38.8	49.4
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)