

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: P530531

Luminaire Tested: **GALN-SA5D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530531  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21070 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

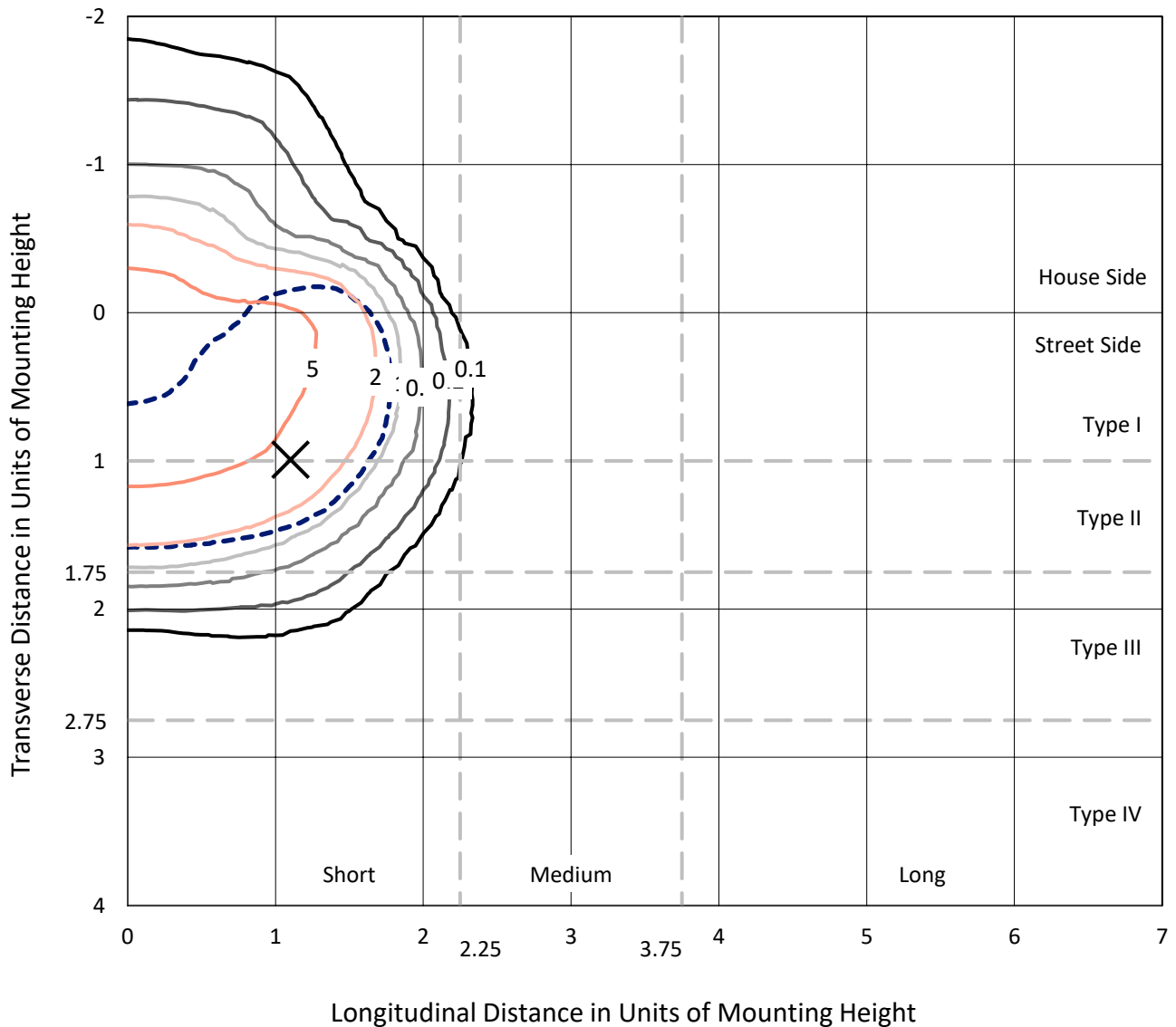
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

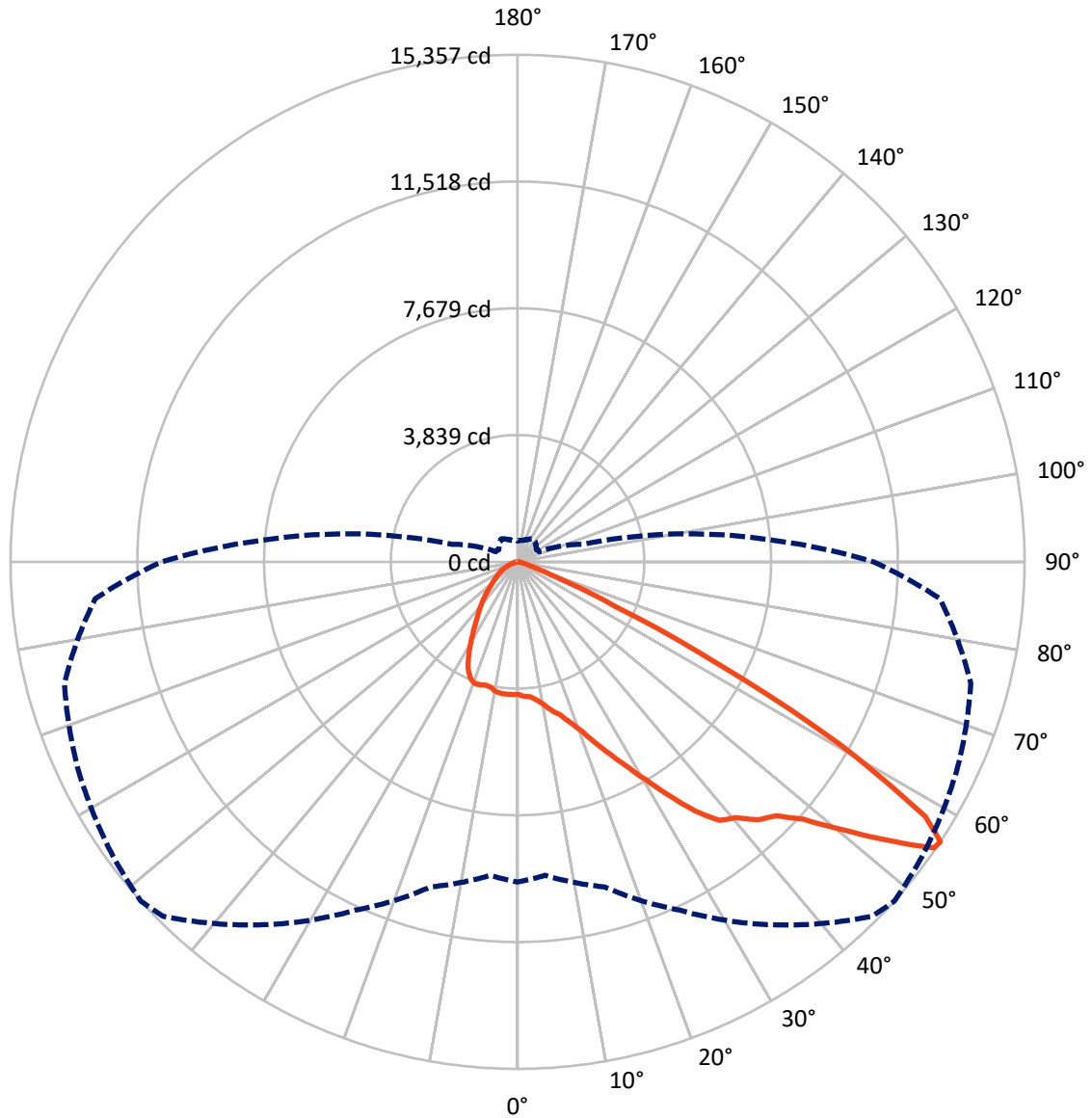
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4582.3	0.0	4582.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	16487.7	0.0	16487.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	21070.0	0.0	21070.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.0	1.9
10°-20°	1252.8	5.9
20°-30°	2272.4	10.8
30°-40°	3569.4	16.9
40°-50°	5207.2	24.7
50°-60°	6273.6	29.8
60°-70°	1836.9	8.7
70°-80°	233.0	1.1
80°-90°	32.7	0.2
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°	21070.0	100.0
0°-180°	21070.0	100.0

**Coefficient of Utilization**

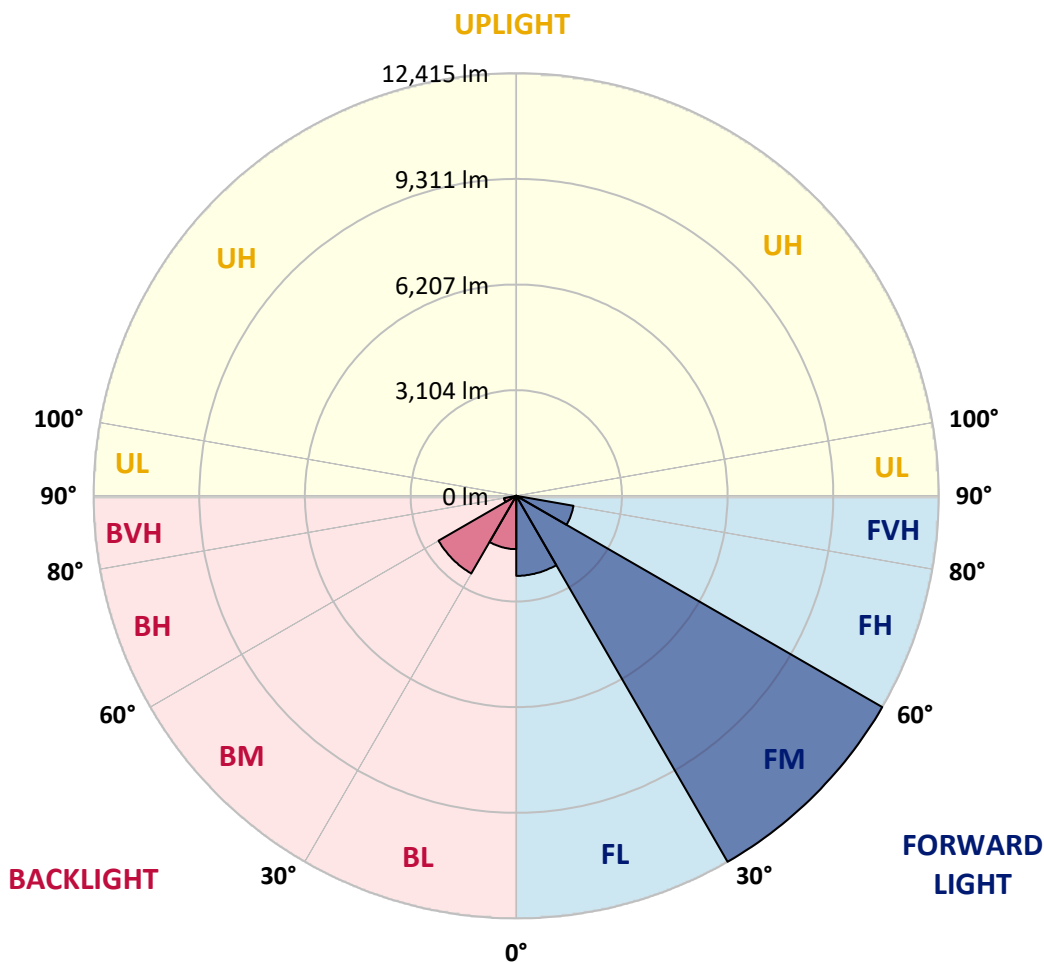


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.0	11.2			
FM (30°-60°)	12414.5	58.9			
FH (60°-80°)	1705.8	8.1			G1/1800
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1566.2	7.4	B3/2500		
BM (30°-60°)	2635.7	12.5	B3/5000		
BH (60°-80°)	364.1	1.7	B1/500		G1/500
BVH (80°-90°)	16.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4
2.5°	4097.3	4078.1	4078.1	4047.4	4081.9	4066.6	4078.1	4039.7	4078.1	4020.5	4066.6
5°	4116.5	4120.3	4104.9	4124.1	4124.1	4147.1	4108.8	4143.3	4162.5	4120.3	4101.1
7.5°	4216.2	4223.9	4220.0	4204.7	4235.4	4231.5	4227.7	4200.9	4208.5	4193.2	4170.2
10°	4411.9	4408.0	4427.2	4388.8	4365.8	4392.7	4400.3	4358.1	4327.5	4315.9	4243.1
12.5°	4695.7	4649.7	4622.9	4584.5	4596.0	4557.6	4626.7	4553.8	4538.5	4469.4	4396.5
15°	4925.9	4918.3	4922.1	4860.7	4791.7	4807.0	4807.0	4768.6	4745.6	4661.2	4557.6
17.5°	5397.8	5236.7	5271.2	5194.5	5136.9	5133.1	5098.6	5106.2	5044.9	4868.4	4711.1
20°	5766.1	5697.0	5643.3	5512.9	5424.7	5451.5	5436.2	5397.8	5378.6	5148.4	4925.9
22.5°	6096.0	6119.1	6030.8	5996.3	5873.5	5885.0	5915.7	5881.2	5735.4	5497.6	5167.6
25°	6560.2	6533.4	6414.5	6372.3	6257.2	6299.4	6418.3	6391.4	6299.4	5869.7	5355.6
27.5°	7108.8	7016.8	7039.8	6848.0	6736.7	6855.6	6997.6	7131.9	6871.0	6307.0	5578.1
30°	7496.3	7400.4	7392.7	7385.1	7358.2	7496.3	7661.3	7784.0	7573.0	6744.4	5946.4
32.5°	7688.1	7711.2	7776.4	7753.4	7987.4	8271.3	8443.9	8620.4	8355.7	7458.0	6433.6
35°	8198.4	8052.6	8198.4	8213.7	8455.4	9057.7	9276.4	9698.4	9633.2	8466.9	7028.3
37.5°	8497.6	8486.1	8505.3	8651.1	8885.1	9629.4	9940.1	10266.2	10143.4	9073.1	7768.7
40°	8992.5	9023.2	9019.4	9130.6	9387.7	10059.0	10185.6	10450.3	10461.9	9913.2	8858.2
42.5°	9786.6	9663.9	9583.3	9698.4	10059.0	10431.2	10684.4	10630.7	11010.5	10933.7	10258.5
45°	10500.2	10573.1	10454.2	10646.0	10776.4	10975.9	10968.3	11083.3	11566.7	11931.2	11313.5
47.5°	11167.7	11213.8	11271.3	11401.8	11685.7	11716.4	11651.1	11601.3	12268.8	12644.8	12130.7
50°	11566.7	11608.9	11877.5	12111.5	12640.9	12710.0	12748.3	12621.7	13074.4	13116.6	12901.8
52.5°	11459.3	11505.4	11881.3	12652.4	13496.4	14129.4	14014.4	13799.5	13772.7	13937.6	13615.4
55°	10507.9	10465.7	10983.6	12184.4	13765.0	15284.2	15299.5	15073.2	14639.7	14528.4	13507.9
56°	9698.4	9533.4	10193.3	11643.5	13419.7	15184.5	15357.1	15115.4	14708.7	14210.0	12844.3
57.5°	7945.2	8102.5	8758.5	9959.3	12226.6	14467.0	14566.8	14509.2	14202.3	13366.0	11302.0
60°	4381.2	4657.4	5236.7	6706.0	8704.8	11102.5	11183.1	11651.1	11708.7	10235.5	7776.4
62.5°	1860.7	1830.0	2432.3	3514.1	4956.6	6702.2	6851.8	7331.4	7419.6	5900.4	3901.6
65°	755.8	798.0	1101.0	1768.6	2620.3	3053.8	3264.8	3422.1	3713.6	2436.1	1438.6
67.5°	498.7	494.9	648.4	1009.0	1411.8	1361.9	1361.9	1438.6	1331.2	993.6	621.5
70°	356.8	368.3	464.2	698.2	878.5	652.2	625.3	598.5	679.0	656.0	502.6
72.5°	234.0	249.4	310.7	418.2	456.5	356.8	356.8	429.7	560.1	529.4	410.5
75°	153.5	157.3	191.8	241.7	226.3	184.1	203.3	287.7	406.7	391.3	291.6
77.5°	103.6	107.4	130.4	157.3	126.6	103.6	111.3	145.8	199.5	199.5	153.5
80°	38.4	42.2	53.7	49.9	57.5	72.9	80.6	99.7	118.9	118.9	103.6
82.5°	0.0	3.8	11.5	26.9	42.2	57.5	65.2	76.7	88.2	99.7	95.9
85°	0.0	3.8	11.5	19.2	30.7	34.5	38.4	26.9	23.0	23.0	19.2
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.7	3.8	3.8
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°	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4	4024.4
2.5°	4024.4	4020.5	4020.5	4009.0	4032.1	4020.5	4028.2	4024.4	3974.5	4012.9	3986.0
5°	4066.6	4093.4	4051.2	4043.6	4012.9	4024.4	4024.4	3986.0	4020.5	4016.7	4009.0
7.5°	4174.0	4128.0	4081.9	4035.9	4028.2	4016.7	3974.5	3959.2	3986.0	3955.3	4001.4
10°	4220.0	4227.7	4158.7	4097.3	4039.7	3959.2	3901.6	3867.1	3824.9	3870.9	3897.8
12.5°	4431.0	4354.3	4235.4	4139.5	3943.8	3863.3	3805.7	3790.4	3863.3	3878.6	3851.7
15°	4503.9	4492.4	4339.0	4124.1	3920.8	3824.9	3836.4	3805.7	3813.4	3775.0	3782.7
17.5°	4653.5	4523.1	4342.8	4074.3	3917.0	3893.9	3824.9	3702.1	3633.1	3602.4	3629.2
20°	4818.5	4691.9	4431.0	4093.4	3951.5	3890.1	3663.8	3514.1	3372.2	3295.5	3299.3
22.5°	4964.3	4807.0	4392.7	4101.1	3982.2	3729.0	3456.6	3161.2	2984.7	2865.8	2869.6
25°	5140.8	4918.3	4408.0	4116.5	3901.6	3471.9	3080.6	2792.9	2581.9	2501.3	2528.2
27.5°	5240.5	4987.3	4492.4	4151.0	3690.6	3107.5	2685.5	2416.9	2294.2	2255.8	2252.0
30°	5539.8	5140.8	4596.0	4081.9	3337.7	2716.2	2324.9	2159.9	2041.0	2006.4	2014.1
32.5°	5984.8	5420.8	4730.3	3901.6	2977.0	2367.1	2090.8	1968.1	1856.8	1791.6	1783.9
35°	6356.9	5900.4	4872.2	3621.6	2558.9	2098.5	1925.9	1772.4	1603.6	1530.7	1511.5
37.5°	7066.6	6441.3	4841.5	3199.6	2159.9	1899.0	1749.4	1561.4	1415.6	1315.9	1304.4
40°	8010.4	7074.3	4691.9	2685.5	1864.5	1722.5	1561.4	1381.1	1200.8	1116.4	1108.7
42.5°	9157.5	7849.3	4419.5	2163.7	1569.1	1546.1	1400.3	1193.1	1032.0	970.6	974.4
45°	10089.7	8513.0	4143.3	1737.9	1350.4	1373.4	1246.8	1051.2	939.9	890.0	890.0
47.5°	10918.4	8961.8	3844.1	1434.8	1147.1	1200.8	1089.5	974.4	878.5	840.2	832.5
50°	11716.4	9418.4	3544.8	1162.4	978.3	1032.0	1020.5	928.4	851.7	805.6	809.5
52.5°	12215.1	9491.2	3165.0	951.4	855.5	916.9	955.3	870.9	786.5	759.6	751.9
55°	11605.1	8551.3	2455.3	782.6	725.1	805.6	878.5	782.6	717.4	671.4	667.5
56°	10784.1	7645.9	2052.5	721.2	686.7	775.0	851.7	748.1	675.2	648.4	629.2
57.5°	9130.6	6257.2	1515.4	640.7	636.8	721.2	809.5	713.6	629.2	606.2	606.2
60°	5693.2	3521.8	916.9	537.1	552.4	640.7	728.9	636.8	560.1	560.1	571.6
62.5°	2593.4	1465.5	556.3	456.5	475.7	552.4	648.4	575.5	533.3	575.5	583.1
65°	882.4	633.0	402.8	364.5	376.0	456.5	556.3	583.1	579.3	606.2	621.5
67.5°	494.9	406.7	337.6	303.1	295.4	337.6	456.5	583.1	560.1	548.6	556.3
70°	418.2	345.3	299.2	268.5	257.0	272.4	352.9	441.2	395.1	383.6	376.0
72.5°	337.6	287.7	260.9	241.7	207.2	176.5	161.1	168.8	188.0	199.5	218.7
75°	237.9	218.7	218.7	195.7	149.6	111.3	88.2	72.9	49.9	34.5	38.4
77.5°	134.3	134.3	138.1	118.9	95.9	72.9	53.7	38.4	19.2	7.7	3.8
80°	92.1	99.7	107.4	95.9	80.6	65.2	46.0	26.9	11.5	0.0	0.0
82.5°	92.1	103.6	111.3	95.9	80.6	61.4	46.0	26.9	11.5	3.8	0.0
85°	19.2	23.0	26.9	30.7	46.0	46.0	34.5	23.0	11.5	3.8	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	0.0
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)