

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: P533303

Luminaire Tested: **GALN-SA8D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30552 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

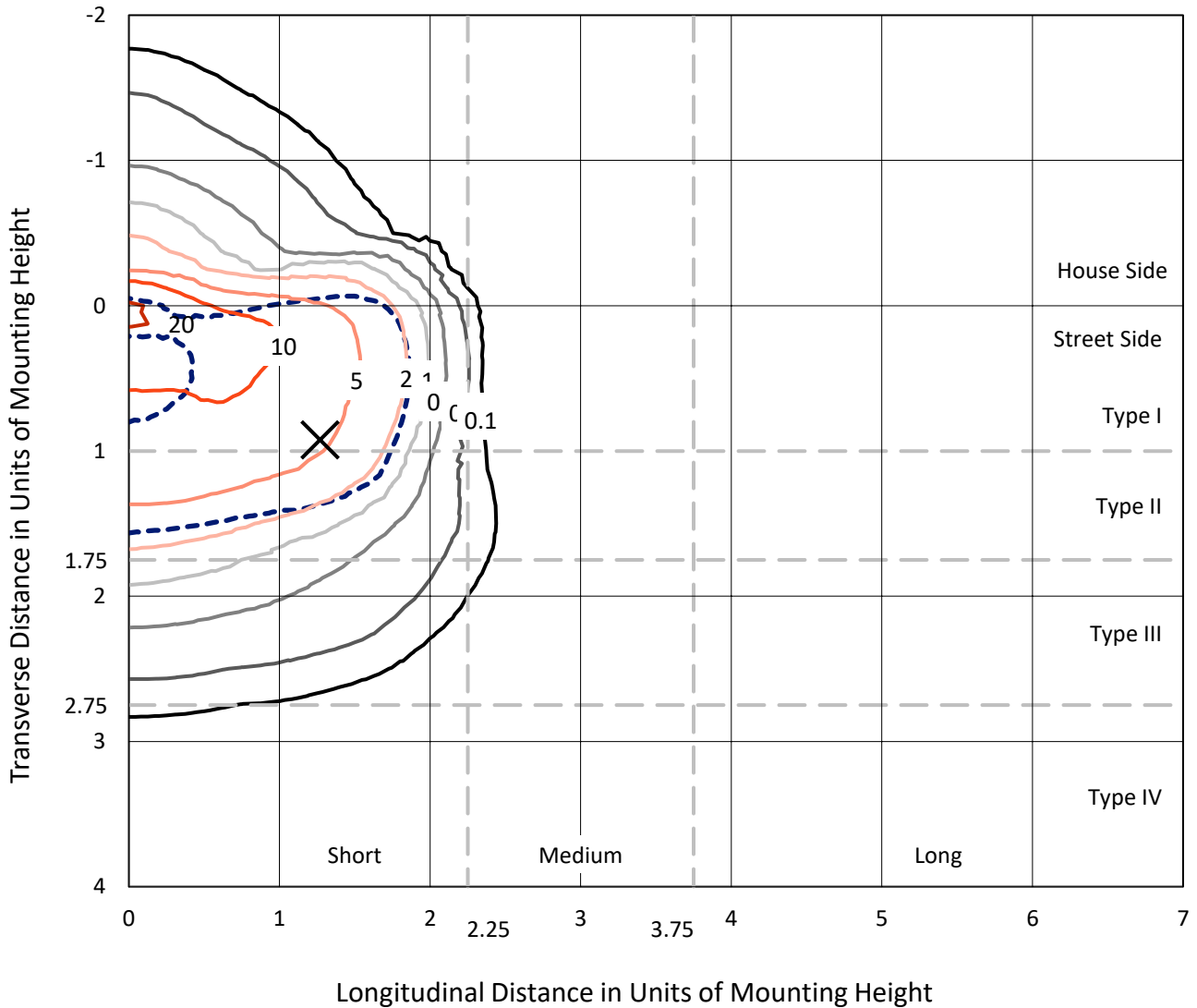
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

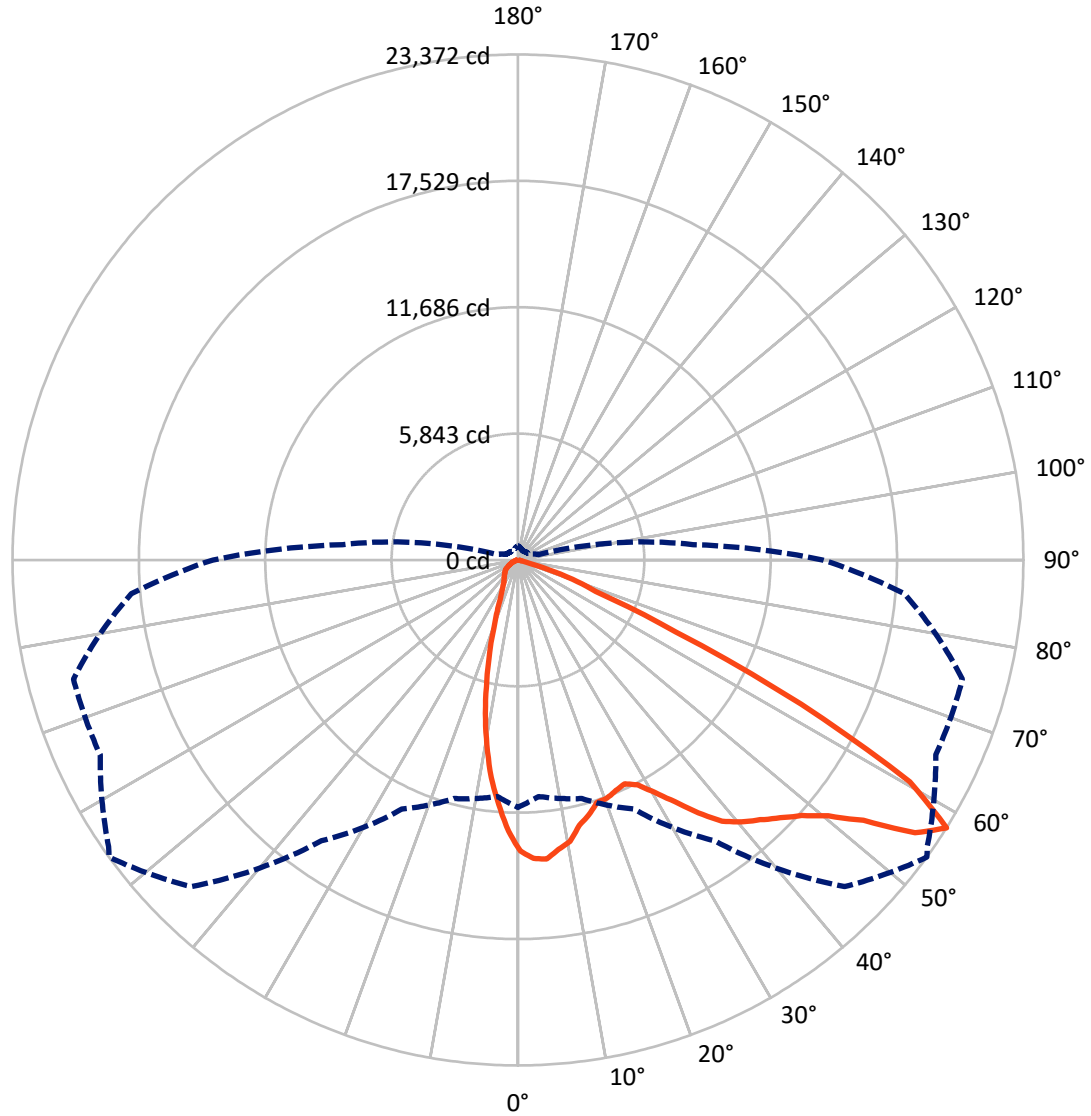
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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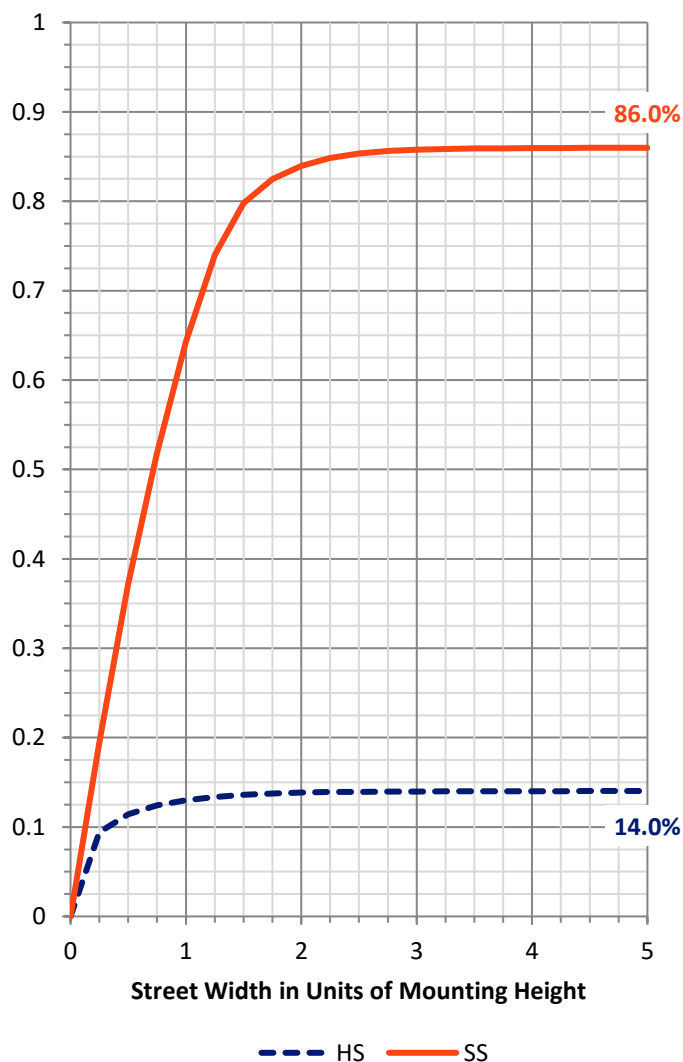
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4317.5	0.0	4317.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	26234.5	0.0	26234.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	30552.0	0.0	30552.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1126.2	3.7
10°-20°	2404.5	7.9
20°-30°	3186.4	10.4
30°-40°	4630.8	15.2
40°-50°	6866.8	22.5
50°-60°	8586.7	28.1
60°-70°	3387.1	11.1
70°-80°	337.2	1.1
80°-90°	26.2	0.1
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°	30552.0	100.0
0°-180°	30552.0	100.0

**Coefficient of Utilization**

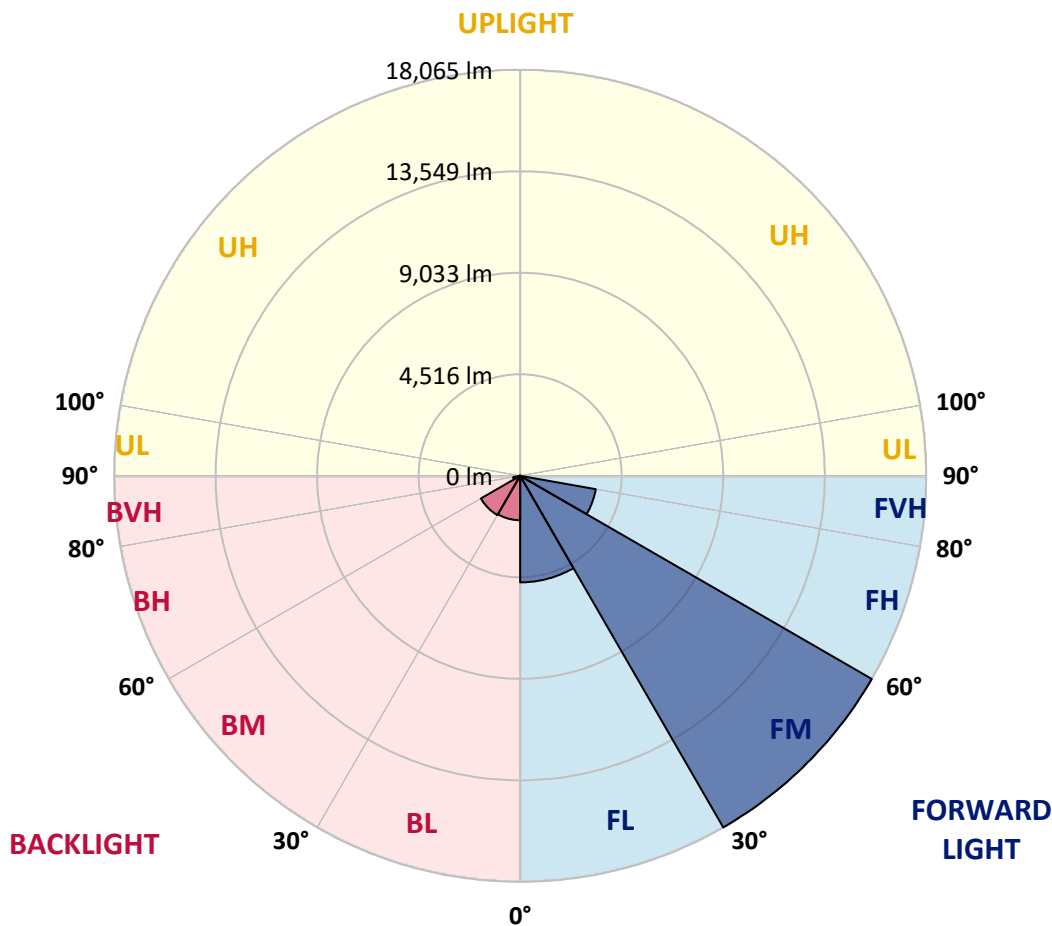


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4742.6	15.5			
FM (30°-60°)	18065.3	59.1			
FH (60°-80°)	3414.7	11.2			G2/5000
FVH (80°-90°)	11.9	0.0			G1/100
BL (0°-30°)	1974.6	6.5	B3/2500		
BM (30°-60°)	2019.0	6.6	B2/2500		
BH (60°-80°)	309.6	1.0	B1/500		G1/500
BVH (80°-90°)	14.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6
2.5°	14242.6	14094.9	14106.2	14055.1	13986.9	14038.0	13816.5	13867.6	13861.9	13560.8	13362.0
5°	13884.7	14043.7	13879.0	14015.3	13884.7	14026.7	13890.3	13788.1	13623.3	13401.8	13032.5
7.5°	13276.8	13123.4	13168.8	13339.3	13367.7	13685.8	13515.4	13646.0	13577.9	13140.4	12634.8
10°	12055.3	12021.2	12248.5	12475.7	12754.1	13095.0	13225.6	13151.8	13100.7	12935.9	12259.9
12.5°	11117.9	11214.5	11208.8	11583.8	12055.3	12248.5	12589.4	12578.0	12862.0	12555.3	11907.6
15°	10226.0	10277.1	10515.7	10748.7	11271.3	11822.4	12242.8	12299.6	12640.5	12424.6	11634.9
17.5°	9680.6	9606.8	9794.2	10072.6	10606.6	11328.1	11794.0	11930.3	12396.2	12350.7	11322.5
20°	9140.9	9140.9	9294.3	9623.8	10112.4	10924.8	11754.2	11714.5	12396.2	12265.5	10987.3
22.5°	8959.1	9050.0	9089.8	9339.8	9919.2	10618.0	11583.8	11657.7	12492.8	12225.8	10839.6
25°	9209.1	9089.8	9101.2	9300.0	9845.4	10470.3	11458.8	11623.6	12668.9	12424.6	10720.3
27.5°	9248.9	9368.2	9402.2	9538.6	9902.2	10515.7	11771.3	12106.5	13106.3	12890.5	10754.4
30°	9595.4	9714.7	9709.0	9942.0	10191.9	10885.0	12470.1	12538.2	14009.6	13475.6	10964.6
32.5°	10015.8	10140.8	10180.6	10453.3	10652.1	11561.1	13322.2	13498.3	14878.8	14396.0	11515.6
35°	10538.5	10493.0	10674.8	10947.5	11373.6	12549.6	14361.9	14657.3	15816.2	15589.0	12083.7
37.5°	11191.8	11135.0	11311.1	11754.2	12333.7	13719.9	15322.0	15515.1	16498.0	16696.8	13134.7
40°	11652.0	11674.7	12208.7	12805.2	13418.8	14833.4	15929.9	16117.3	16975.2	17730.8	13930.1
42.5°	12418.9	12561.0	13202.9	13930.1	14572.1	15668.5	16424.1	16605.9	17196.7	18560.2	15003.8
45°	13532.4	13469.9	14180.1	14992.5	15702.6	16537.7	17009.3	16946.8	17327.4	19384.0	15679.9
47.5°	14964.1	14975.4	15447.0	16140.1	16878.6	17293.3	17662.6	17441.0	17600.1	20253.2	16583.2
50°	15941.2	16026.4	16407.1	17117.2	17486.5	18122.8	18594.3	18458.0	18406.8	20775.8	17151.3
52.5°	16191.2	16446.8	16651.4	17537.6	18401.1	19406.7	20008.9	20298.6	19389.7	20952.0	17872.8
55°	14305.1	14532.3	15253.8	16469.6	18747.7	21440.5	22270.0	22275.7	20673.6	21736.0	18378.4
57.5°	11436.1	10975.9	11419.0	12708.7	15850.3	21355.3	23372.1	23105.1	21315.6	21275.8	17941.0
60°	7908.1	7794.5	7822.9	8334.2	10970.2	16986.5	20827.0	21173.5	19628.3	18440.9	14202.8
62.5°	6266.3	6169.7	6044.7	5987.9	6811.7	10583.9	14691.4	15179.9	13725.6	11958.8	8419.4
65°	4908.5	4851.7	4868.7	5096.0	5090.3	6004.9	8033.1	7834.3	6272.0	4635.8	2647.4
67.5°	3312.1	3397.3	3465.5	4152.9	4505.1	4181.3	3880.2	3766.6	2039.5	857.8	585.2
70°	1863.4	1874.8	1948.6	2596.3	3420.0	3243.9	2675.8	2675.8	1016.9	312.5	335.2
72.5°	1016.9	982.8	914.7	1119.2	1522.5	1545.3	1193.0	1039.6	301.1	204.5	187.5
75°	494.3	488.6	420.4	346.5	329.5	272.7	210.2	193.2	136.3	130.7	113.6
77.5°	102.3	96.6	51.1	51.1	56.8	62.5	79.5	79.5	96.6	96.6	79.5
80°	0.0	0.0	5.7	22.7	39.8	56.8	68.2	68.2	79.5	79.5	62.5
82.5°	0.0	0.0	5.7	17.0	34.1	51.1	62.5	68.2	79.5	85.2	68.2
85°	0.0	0.0	0.0	11.4	28.4	39.8	34.1	34.1	28.4	22.7	11.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6	13458.6
2.5°	13259.7	13248.4	12987.0	12839.3	12572.3	12339.4	12151.9	12015.6	12015.6	11930.3	11850.8
5°	12884.8	12788.2	12231.4	11873.5	11367.9	10993.0	10737.3	10538.5	10226.0	10311.2	9976.0
7.5°	12418.9	12174.6	11436.1	10890.7	10191.9	9657.9	9112.5	8629.6	8163.8	7953.6	8067.2
10°	11919.0	11492.9	10498.7	9635.2	8766.0	7788.8	7152.5	6379.9	5902.7	5874.3	5749.3
12.5°	11390.6	10907.7	9697.7	8504.6	7362.7	6186.7	5215.3	4493.8	4169.9	3812.0	3880.2
15°	10993.0	10277.1	8805.7	7368.4	5851.6	4664.2	3687.0	3130.3	2823.5	2738.3	2709.9
17.5°	10561.2	9794.2	7896.8	6158.3	4590.3	3357.5	2653.1	2386.1	2266.8	2266.8	2249.7
20°	10112.4	9248.9	6993.5	5033.5	3442.8	2505.4	2124.7	2039.5	2033.8	2028.2	2028.2
22.5°	9817.0	8623.9	6175.4	3999.5	2596.3	2005.4	1846.4	1812.3	1835.0	1903.2	1903.2
25°	9504.5	8021.7	5272.1	3084.8	2011.1	1721.4	1630.5	1653.2	1710.0	1772.5	1749.8
27.5°	9186.4	7629.7	4419.9	2420.2	1647.5	1505.5	1471.4	1522.5	1585.0	1641.8	1624.8
30°	9112.5	7209.3	3613.2	1835.0	1414.6	1312.3	1335.1	1380.5	1443.0	1465.7	1488.5
32.5°	9226.1	6879.8	2959.9	1505.5	1232.8	1204.4	1204.4	1227.1	1266.9	1318.0	1301.0
35°	9550.0	6692.4	2340.6	1306.7	1130.5	1102.1	1096.5	1119.2	1141.9	1158.9	1141.9
37.5°	10044.2	6544.6	1914.5	1158.9	1062.4	1016.9	1005.6	999.9	1022.6	1028.3	1039.6
40°	10674.8	6624.2	1624.8	1068.1	994.2	943.1	909.0	909.0	909.0	926.0	931.7
42.5°	11356.6	6732.1	1403.2	1016.9	931.7	869.2	835.1	823.8	835.1	857.8	852.2
45°	12072.4	6942.3	1261.2	937.4	874.9	795.4	749.9	738.5	767.0	812.4	806.7
47.5°	12742.7	7243.4	1153.3	886.3	818.1	744.2	687.4	676.1	727.2	789.7	795.4
50°	13413.1	7766.1	1113.5	846.5	778.3	693.1	642.0	630.6	687.4	767.0	784.0
52.5°	14185.8	8328.5	1085.1	795.4	732.9	653.3	596.5	585.2	647.6	749.9	755.6
55°	14691.4	8805.7	1062.4	704.5	647.6	590.8	545.4	539.7	607.9	698.8	721.5
57.5°	14100.5	8141.0	982.8	613.6	551.1	522.7	482.9	482.9	539.7	624.9	642.0
60°	10691.9	5357.3	698.8	494.3	465.9	448.8	431.8	431.8	477.2	539.7	545.4
62.5°	6260.6	2886.0	448.8	397.7	397.7	380.6	352.2	352.2	397.7	431.8	437.4
65°	1857.7	926.0	363.6	340.9	335.2	306.8	278.4	272.7	306.8	323.8	318.1
67.5°	534.0	426.1	301.1	284.1	278.4	232.9	215.9	210.2	215.9	204.5	198.8
70°	318.1	289.7	232.9	238.6	210.2	170.4	153.4	147.7	136.3	119.3	107.9
72.5°	176.1	176.1	170.4	181.8	147.7	113.6	96.6	79.5	62.5	51.1	45.4
75°	107.9	113.6	119.3	125.0	96.6	73.9	62.5	39.8	22.7	11.4	11.4
77.5°	73.9	79.5	85.2	90.9	79.5	68.2	51.1	28.4	5.7	0.0	0.0
80°	56.8	62.5	73.9	79.5	85.2	90.9	68.2	28.4	5.7	0.0	0.0
82.5°	62.5	68.2	85.2	79.5	79.5	79.5	62.5	28.4	5.7	0.0	0.0
85°	11.4	17.0	28.4	28.4	39.8	51.1	39.8	11.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)