

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: P527695

Luminaire Tested: **GALN-SA2D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527695  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8604 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

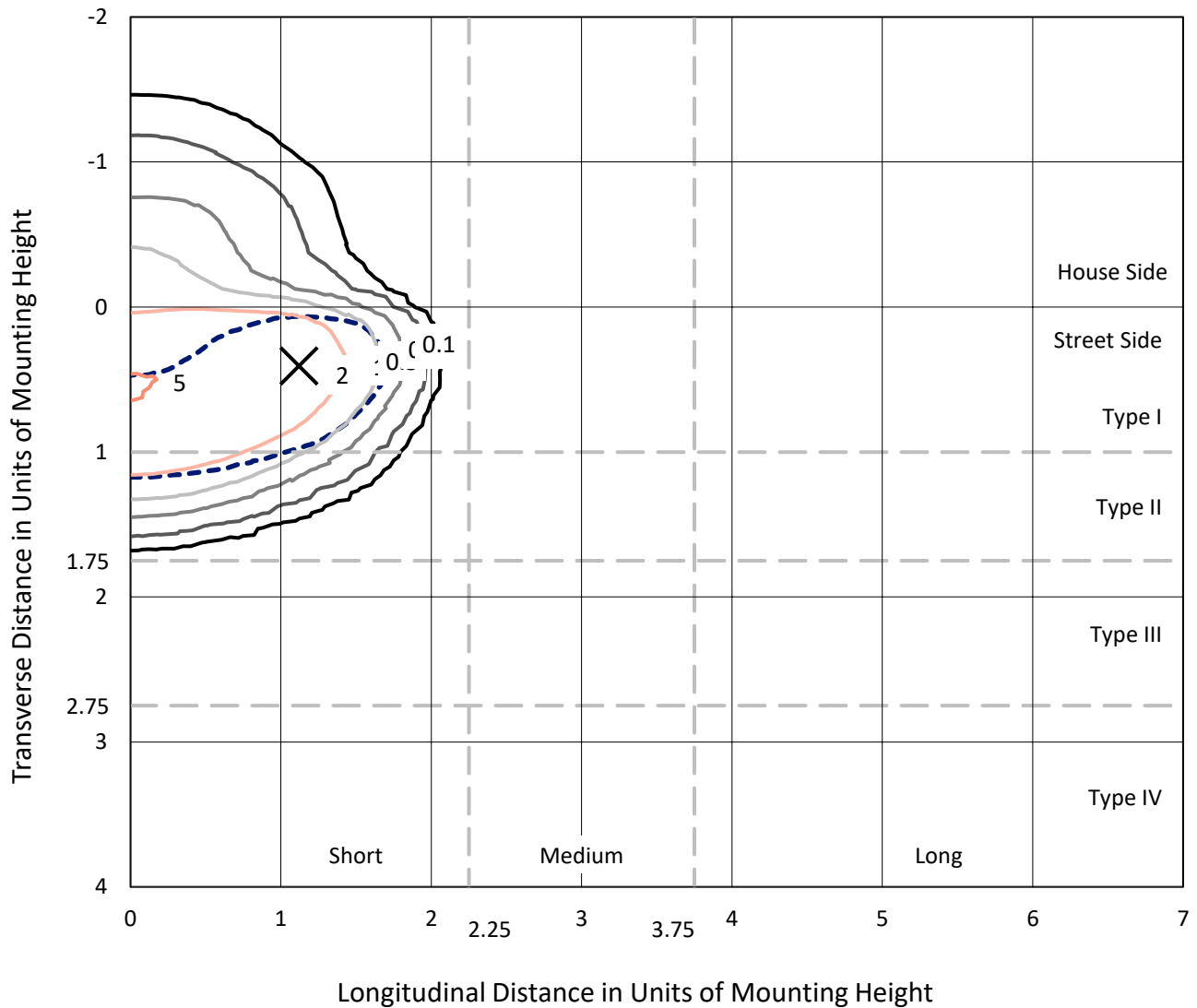
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

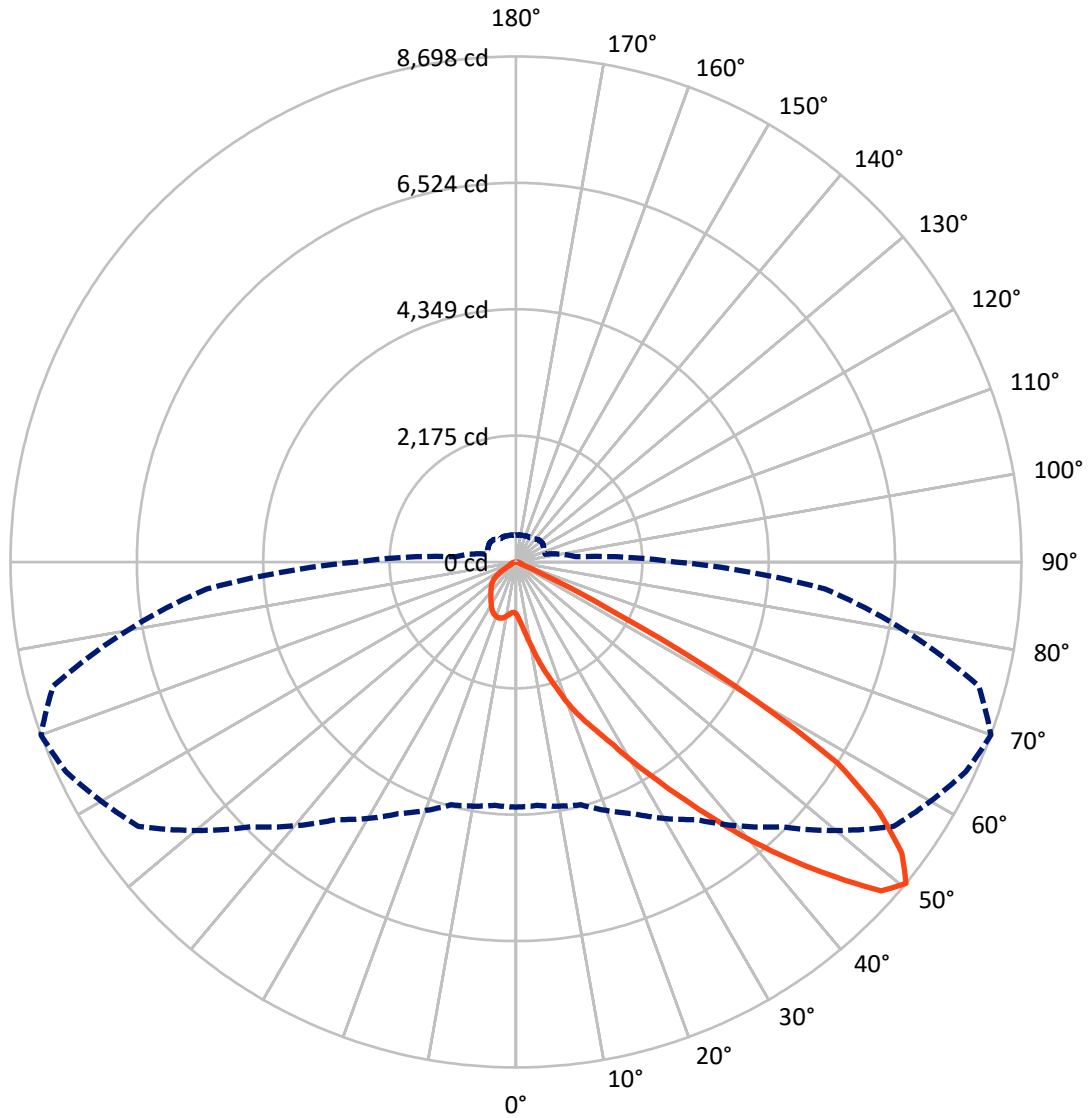
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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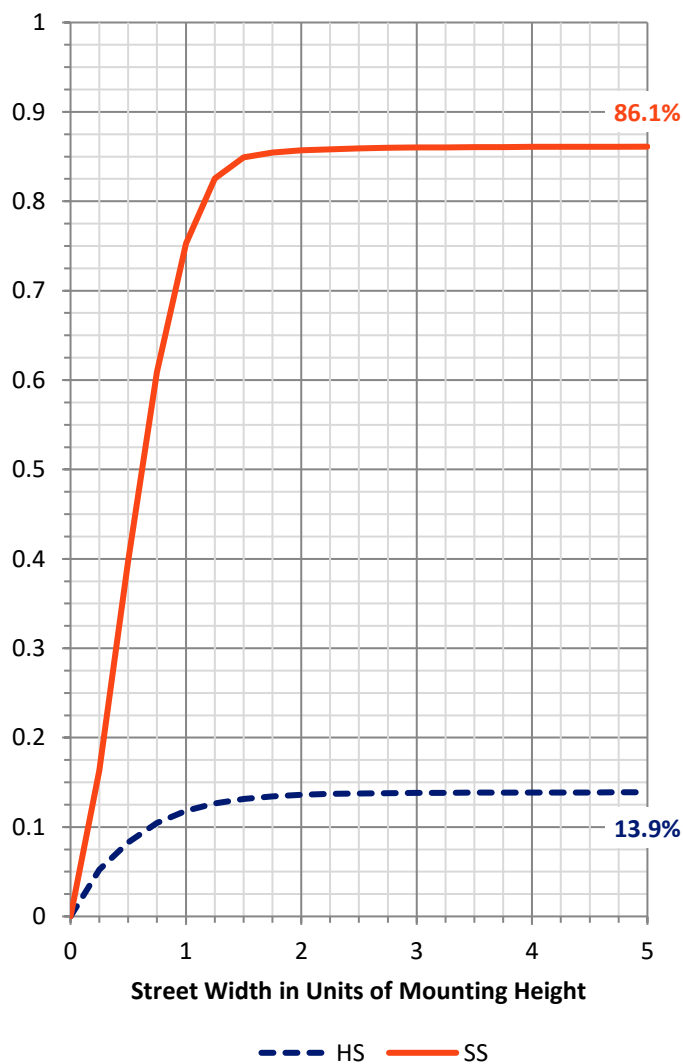
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1201.6	0.0	1201.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7402.4	0.0	7402.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8604.0	0.0	8604.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.9	1.3
10°-20°	501.3	5.8
20°-30°	1051.6	12.2
30°-40°	1812.7	21.1
40°-50°	2649.2	30.8
50°-60°	2063.3	24.0
60°-70°	349.6	4.1
70°-80°	48.0	0.6
80°-90°	12.4	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°	8604.0	100.0
0°-180°	8604.0	100.0

**Coefficient of Utilization**



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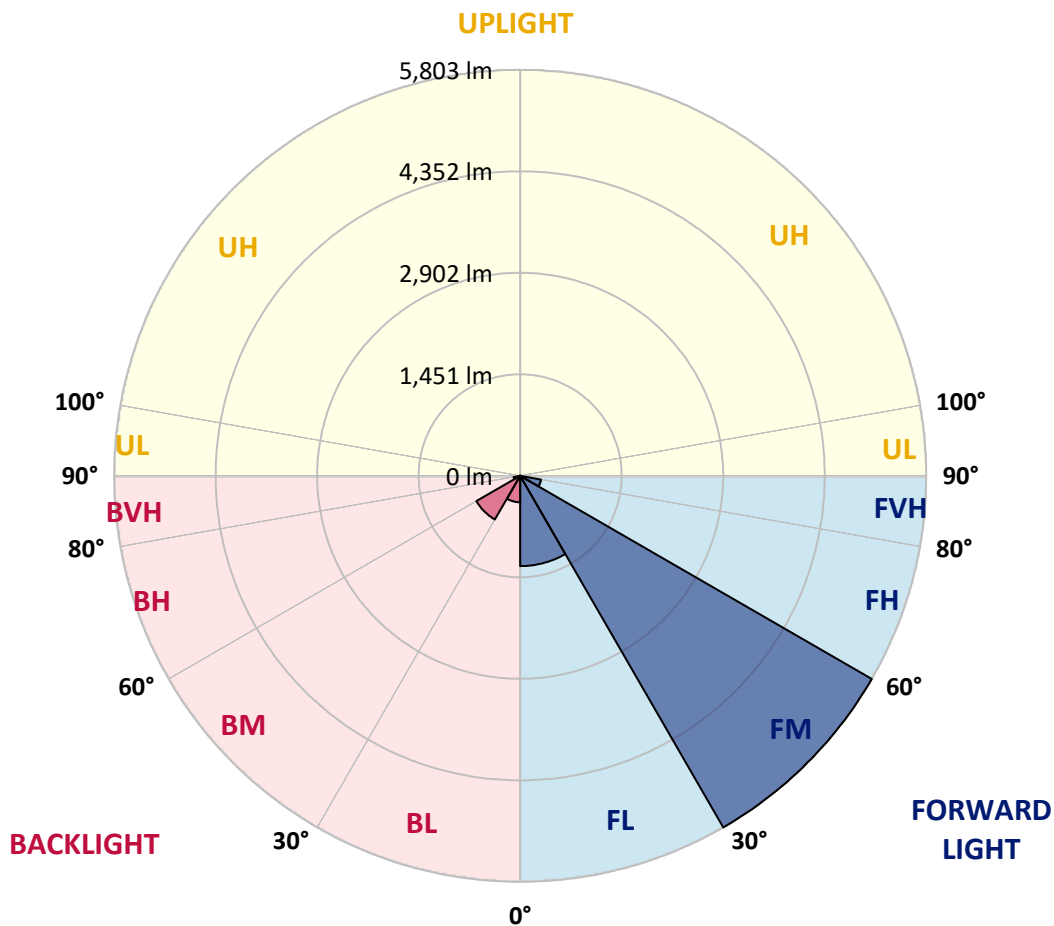
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.7	15.0			
FM (30°-60°)	5803.3	67.4			
FH (60°-80°)	302.7	3.5			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	378.1	4.4	B1/500		
BM (30°-60°)	721.9	8.4	B1/1000		
BH (60°-80°)	94.9	1.1	B0/110		G0/110
BVH (80°-90°)	6.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
2.5°	1167.1	1158.6	1140.2	1106.2	1092.1	1058.1	1038.3	1000.1	976.1	949.2	919.5
5°	1643.8	1599.9	1573.0	1534.9	1423.1	1353.8	1239.2	1141.6	1096.3	1046.8	978.9
7.5°	2136.1	2107.8	2071.0	1988.9	1912.6	1768.3	1571.6	1356.6	1264.7	1179.8	1045.4
10°	2543.5	2464.3	2460.0	2399.2	2315.7	2143.1	1906.9	1639.5	1475.4	1351.0	1140.2
12.5°	2827.8	2755.7	2788.2	2781.1	2703.3	2544.9	2271.9	1918.2	1747.0	1553.2	1237.8
15°	3086.7	3057.0	3047.1	3038.6	3007.5	2890.1	2645.3	2257.7	2010.2	1776.8	1348.1
17.5°	3339.9	3263.5	3300.3	3307.4	3304.5	3198.4	2969.3	2580.3	2288.8	2013.0	1464.1
20°	3564.8	3571.9	3522.4	3512.5	3504.0	3499.7	3276.2	2900.0	2631.2	2260.5	1615.5
22.5°	3853.4	3803.9	3847.7	3819.4	3764.3	3730.3	3559.2	3182.9	2928.2	2559.0	1769.7
25°	4194.3	4233.9	4130.7	4119.3	4058.5	3941.1	3786.9	3499.7	3214.0	2836.3	1936.6
27.5°	4614.5	4545.1	4518.3	4456.0	4345.7	4296.2	4115.1	3826.5	3559.2	3127.7	2097.9
30°	4975.2	4956.8	4822.4	4748.8	4652.7	4651.2	4398.0	4269.3	4009.0	3584.6	2320.0
32.5°	5269.4	5188.8	5139.3	5088.4	5010.6	5031.8	4818.2	4750.3	4488.6	4009.0	2581.7
35°	5466.1	5408.1	5378.4	5300.5	5277.9	5372.7	5283.6	5255.3	5040.3	4606.0	2888.6
37.5°	5528.3	5546.7	5541.0	5443.4	5491.5	5747.6	5862.1	5788.6	5675.4	5235.5	3221.1
40°	5583.5	5596.2	5567.9	5682.5	5819.7	6111.1	6525.6	6403.9	6361.5	5873.5	3683.6
42.5°	5614.6	5604.7	5604.7	5802.7	6010.7	6596.3	7166.4	7085.8	7053.3	6552.5	4218.4
45°	5480.2	5384.0	5487.3	5756.1	6174.8	6835.4	7678.5	7790.3	7743.6	7360.2	4843.6
47.5°	4978.0	5037.4	5095.4	5454.7	5975.3	6761.8	7992.6	8373.1	8459.4	8039.2	5253.9
50°	4218.4	4205.6	4325.9	4778.6	5410.9	6445.0	7931.7	8541.4	8698.4	8242.9	5340.2
52.5°	3068.3	3161.7	3291.8	3741.6	4491.4	5624.5	7146.6	8107.1	8316.5	7992.6	5283.6
55°	1786.7	1683.4	1976.2	2356.7	3064.0	4242.4	6041.8	7186.2	7573.8	7537.0	4997.8
57.5°	715.8	693.2	793.6	1069.4	1598.5	2629.8	4393.8	5904.6	6525.6	6903.3	4392.4
60°	314.0	307.0	360.7	435.7	653.6	1212.3	2403.4	3672.3	4320.2	4823.8	3023.0
62.5°	226.3	223.5	250.4	277.3	345.2	527.6	1010.0	1479.7	1844.7	2228.0	1353.8
65°	182.5	189.6	207.9	222.1	254.6	292.8	356.5	411.7	505.0	523.4	298.5
67.5°	148.5	154.2	171.2	186.7	192.4	158.4	164.1	144.3	144.3	128.7	103.3
70°	108.9	110.3	130.1	148.5	118.8	63.7	111.8	111.8	100.4	96.2	87.7
72.5°	80.6	82.0	97.6	91.9	46.7	39.6	82.0	90.5	82.0	77.8	70.7
75°	59.4	60.8	50.9	21.2	19.8	25.5	48.1	62.2	59.4	58.0	53.8
77.5°	11.3	8.5	7.1	9.9	14.1	21.2	31.1	38.2	39.6	42.4	39.6
80°	1.4	1.4	4.2	8.5	15.6	22.6	32.5	36.8	38.2	39.6	36.8
82.5°	0.0	1.4	4.2	8.5	15.6	21.2	28.3	32.5	35.4	36.8	35.4
85°	0.0	1.4	2.8	7.1	12.7	15.6	14.1	9.9	8.5	9.9	7.1
87.5°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
2.5°	902.5	896.9	877.1	855.8	837.4	845.9	837.4	830.4	833.2	830.4	827.5
5°	952.0	926.6	884.1	865.7	850.2	848.8	844.5	843.1	844.5	844.5	831.8
7.5°	998.7	957.7	912.4	892.6	874.2	875.6	865.7	865.7	864.3	857.3	854.4
10°	1069.4	1014.3	956.3	920.9	898.3	894.0	884.1	874.2	874.2	874.2	860.1
12.5°	1147.2	1077.9	998.7	957.7	930.8	909.6	894.0	891.2	875.6	872.8	865.7
15°	1215.2	1127.4	1027.0	970.4	936.5	908.2	884.1	868.6	861.5	857.3	851.6
17.5°	1281.6	1169.9	1042.6	970.4	933.6	901.1	875.6	861.5	844.5	847.4	836.0
20°	1370.8	1215.2	1046.8	952.0	906.8	875.6	841.7	834.6	824.7	816.2	819.1
22.5°	1457.0	1247.7	1034.1	929.4	864.3	827.5	810.6	802.1	797.8	790.8	780.9
25°	1534.9	1283.1	1014.3	888.4	819.1	792.2	776.6	775.2	765.3	765.3	746.9
27.5°	1614.1	1295.8	980.3	840.3	779.5	763.9	756.8	754.0	749.7	739.8	727.1
30°	1704.6	1300.0	930.8	790.8	744.1	727.1	737.0	744.1	725.7	707.3	713.0
32.5°	1779.6	1290.1	871.4	744.1	718.6	710.1	729.9	737.0	715.8	696.0	686.1
35°	1870.1	1266.1	813.4	707.3	693.2	710.1	727.1	727.1	684.7	660.6	655.0
37.5°	2007.3	1239.2	759.6	676.2	666.3	701.6	724.3	708.7	642.2	612.5	605.5
40°	2154.5	1222.2	707.3	645.1	652.1	687.5	700.2	652.1	584.2	565.8	560.2
42.5°	2368.1	1188.3	660.6	618.2	639.4	667.7	667.7	581.4	555.9	546.0	544.6
45°	2634.0	1164.2	619.6	595.6	621.0	628.1	605.5	544.6	526.2	523.4	524.8
47.5°	2764.2	1117.5	577.2	568.7	587.1	588.5	529.1	514.9	499.4	495.1	492.3
50°	2744.3	1034.1	522.0	533.3	558.8	544.6	482.4	485.2	471.1	469.7	462.6
52.5°	2605.7	902.5	466.8	493.7	522.0	481.0	444.2	441.4	441.4	423.0	415.9
55°	2310.1	727.1	400.3	434.3	468.2	404.6	394.7	391.8	384.8	367.8	363.6
57.5°	1829.1	533.3	301.3	338.1	397.5	343.8	342.3	329.6	311.2	298.5	298.5
60°	1087.8	307.0	189.6	206.5	263.1	278.7	309.8	304.1	273.0	253.2	247.6
62.5°	496.5	158.4	120.2	123.1	141.5	181.1	243.3	281.5	237.7	203.7	200.9
65°	166.9	117.4	99.0	94.8	97.6	108.9	145.7	199.5	189.6	157.0	151.4
67.5°	101.9	104.7	93.4	86.3	86.3	84.9	83.5	90.5	111.8	108.9	110.3
70°	87.7	96.2	86.3	77.8	75.0	70.7	59.4	49.5	42.4	49.5	52.3
72.5°	70.7	76.4	73.6	66.5	59.4	53.8	42.4	32.5	24.0	21.2	21.2
75°	52.3	56.6	59.4	50.9	45.3	38.2	31.1	21.2	12.7	8.5	8.5
77.5°	38.2	42.4	43.9	39.6	34.0	26.9	19.8	14.1	7.1	2.8	2.8
80°	32.5	38.2	42.4	39.6	35.4	25.5	18.4	9.9	5.7	1.4	1.4
82.5°	31.1	38.2	42.4	38.2	34.0	24.0	18.4	11.3	4.2	1.4	1.4
85°	7.1	9.9	12.7	15.6	18.4	18.4	14.1	8.5	4.2	1.4	1.4
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	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)