

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: P527227

Luminaire Tested: **GALN-SA2B-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527227  
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-SA2B-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA 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: 6329 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

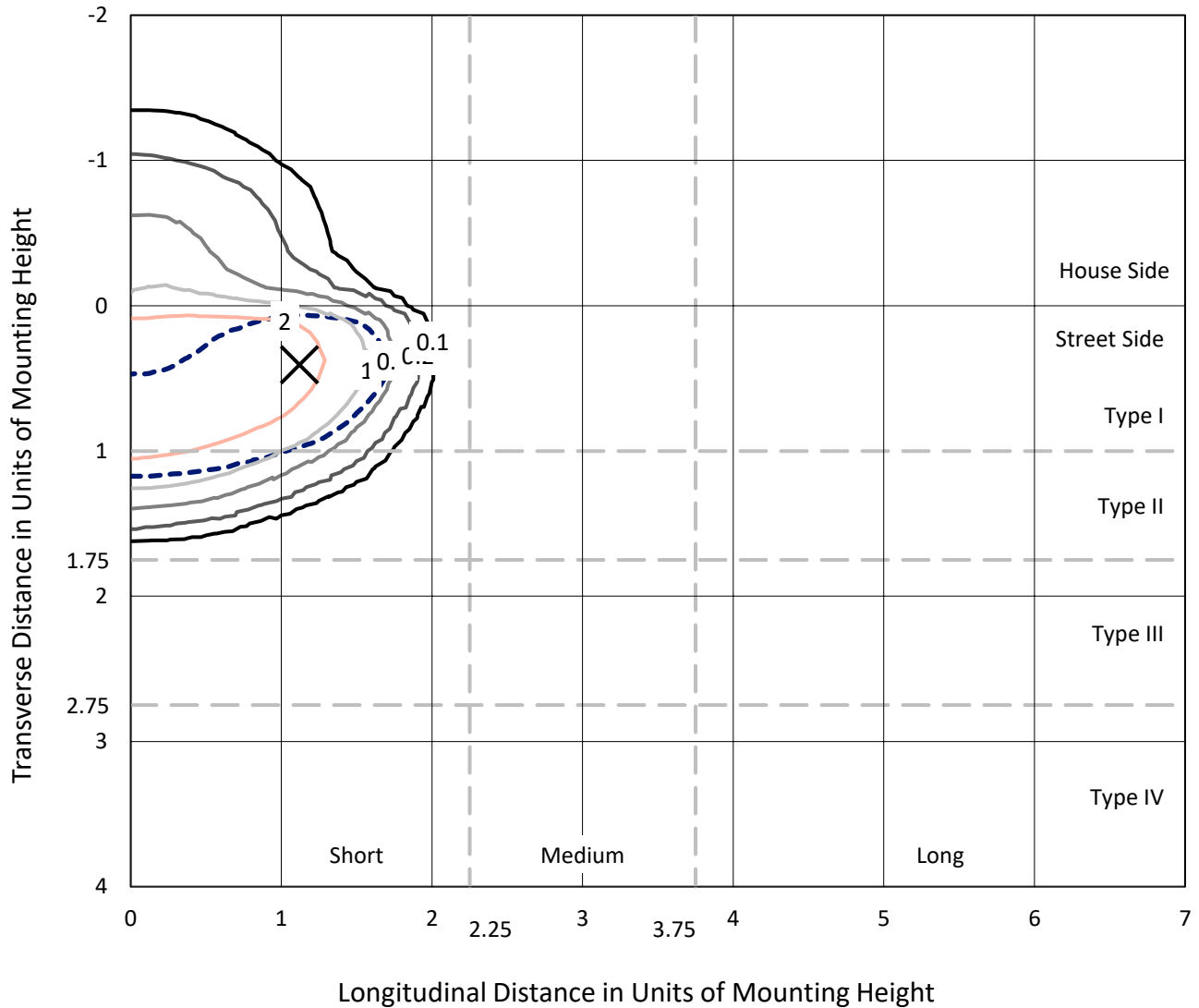
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

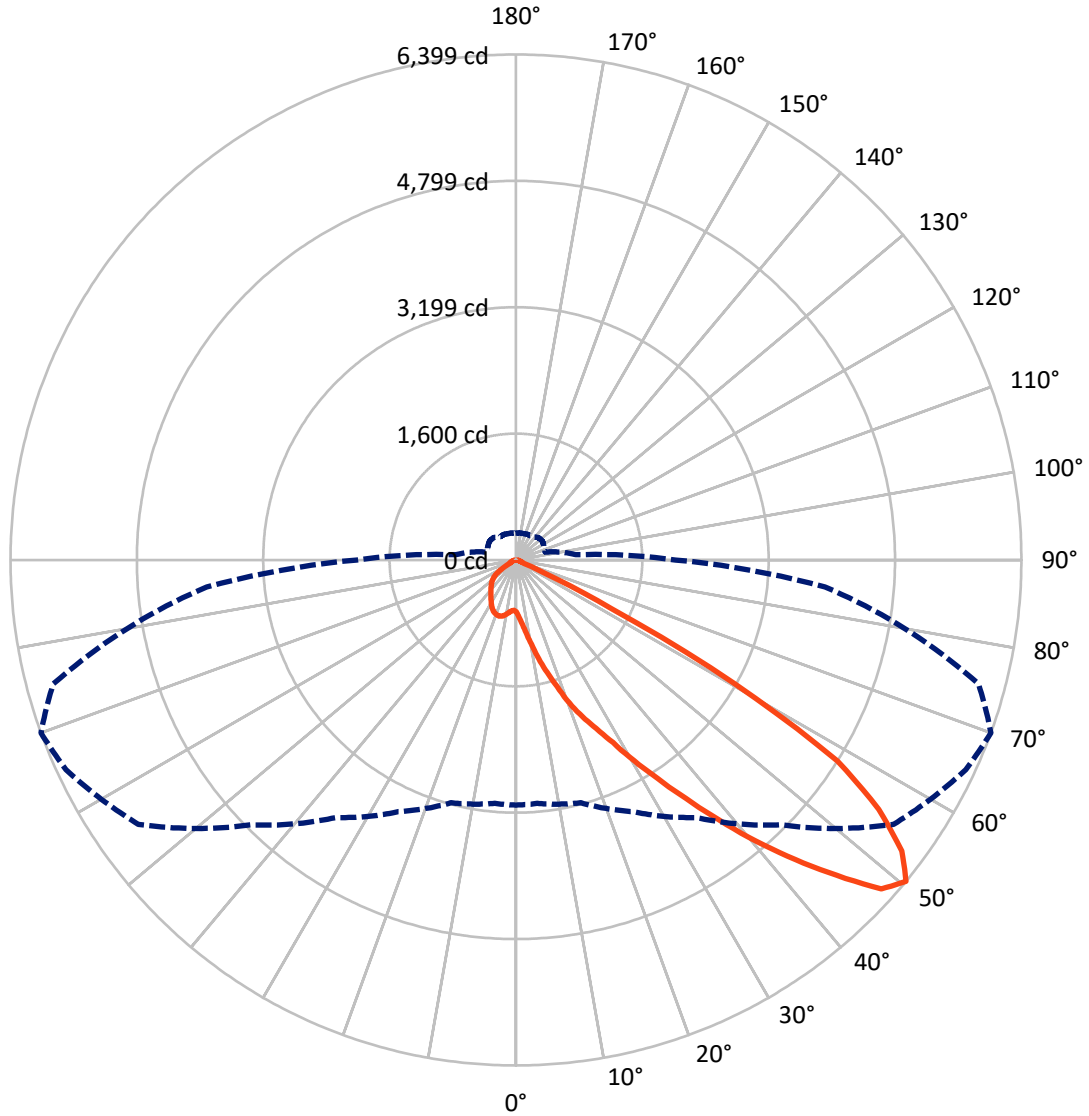
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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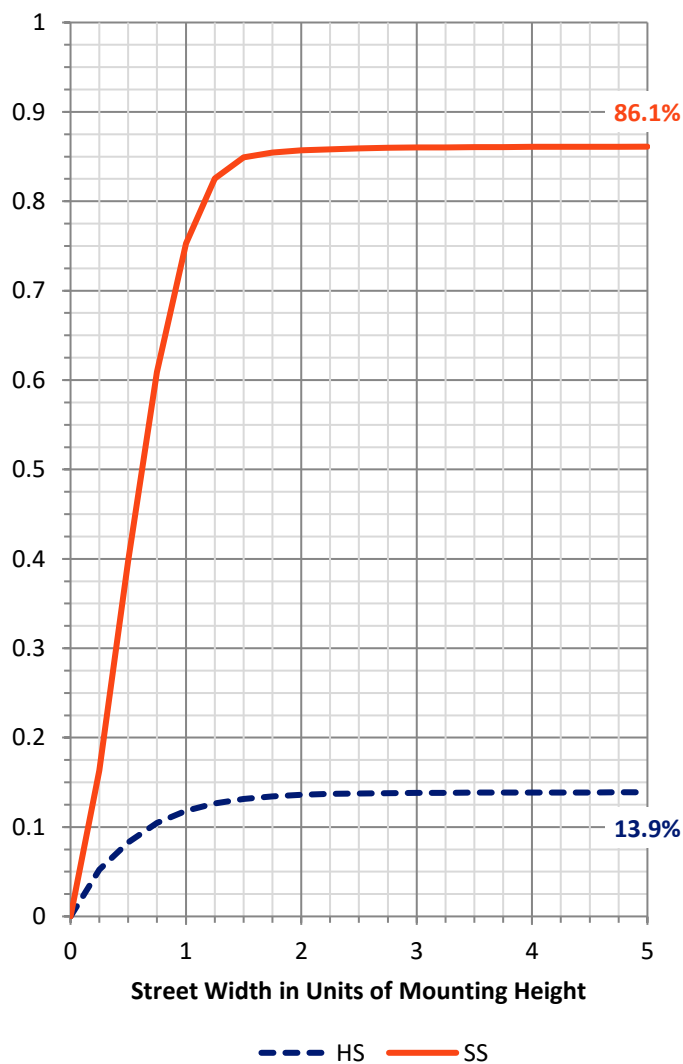
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	883.9	0.0	883.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	5445.1	0.0	5445.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	6329.0	0.0	6329.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	1.3
10°-20°	368.7	5.8
20°-30°	773.6	12.2
30°-40°	1333.4	21.1
40°-50°	1948.7	30.8
50°-60°	1517.7	24.0
60°-70°	257.1	4.1
70°-80°	35.3	0.6
80°-90°	9.1	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°	6329.0	100.0
0°-180°	6329.0	100.0

**Coefficient of Utilization**



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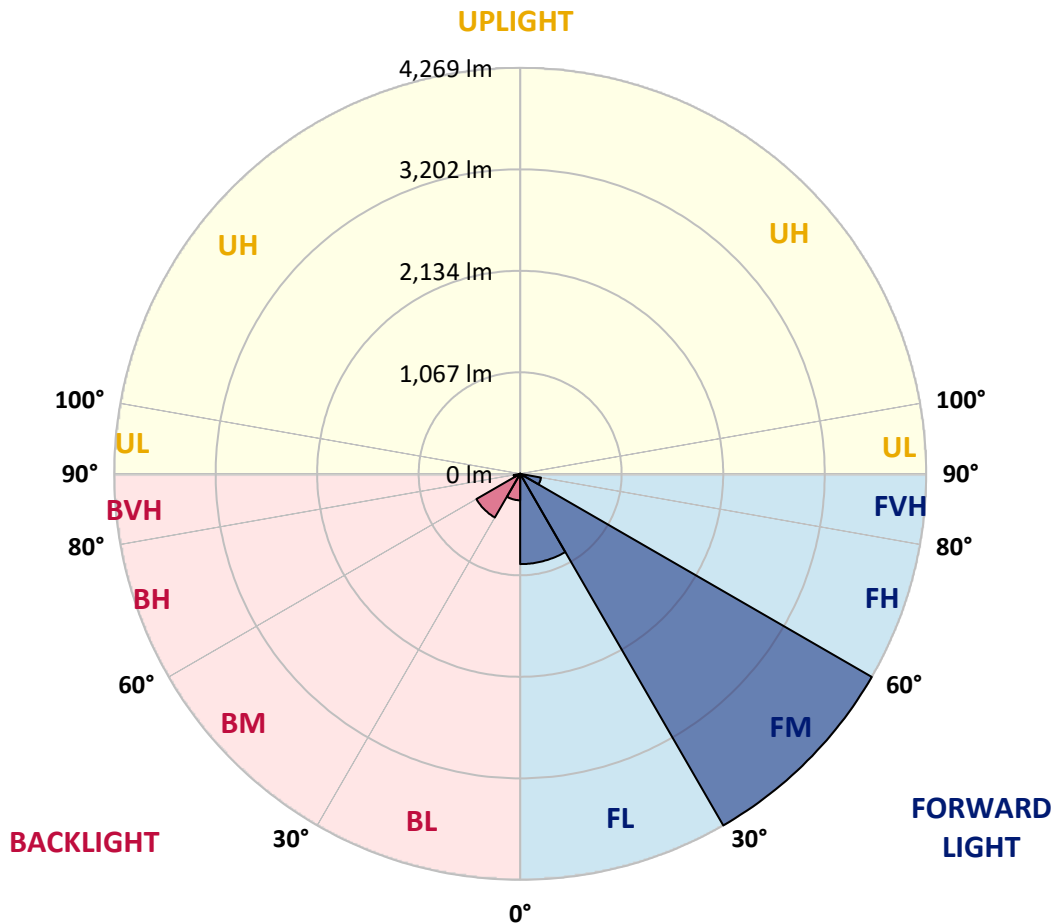
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.4	15.0			
FM (30°-60°)	4268.8	67.4			
FH (60°-80°)	222.7	3.5			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	278.1	4.4	B1/500		
BM (30°-60°)	531.0	8.4	B1/1000		
BH (60°-80°)	69.8	1.1	B0/110		G0/110
BVH (80°-90°)	4.9	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°	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6
2.5°	858.5	852.2	838.7	813.7	803.3	778.3	763.8	735.7	718.0	698.2	676.4
5°	1209.1	1176.9	1157.1	1129.0	1046.8	995.8	911.5	839.7	806.4	770.0	720.1
7.5°	1571.3	1550.5	1523.4	1463.0	1406.9	1300.7	1156.1	997.9	930.3	867.8	769.0
10°	1870.9	1812.7	1809.6	1764.8	1703.4	1576.5	1402.7	1206.0	1085.3	993.7	838.7
12.5°	2080.1	2027.0	2051.0	2045.8	1988.5	1872.0	1671.2	1411.0	1285.1	1142.5	910.5
15°	2270.5	2248.7	2241.4	2235.1	2212.3	2125.9	1945.9	1660.8	1478.7	1307.0	991.7
17.5°	2456.8	2400.6	2427.7	2432.9	2430.8	2352.7	2184.2	1898.0	1683.6	1480.7	1077.0
20°	2622.2	2627.4	2591.0	2583.7	2577.5	2574.4	2410.0	2133.2	1935.5	1662.8	1188.3
22.5°	2834.5	2798.1	2830.4	2809.5	2769.0	2744.0	2618.1	2341.3	2154.0	1882.4	1301.8
25°	3085.3	3114.4	3038.5	3030.1	2985.4	2899.0	2785.6	2574.4	2364.2	2086.3	1424.5
27.5°	3394.3	3343.4	3323.6	3277.8	3196.6	3160.2	3027.0	2814.7	2618.1	2300.7	1543.2
30°	3659.7	3646.2	3547.3	3493.2	3422.4	3421.4	3235.1	3140.4	2949.0	2636.8	1706.5
32.5°	3876.1	3816.8	3780.4	3742.9	3685.7	3701.3	3544.2	3494.2	3301.7	2949.0	1899.0
35°	4020.8	3978.1	3956.3	3899.0	3882.4	3952.1	3886.5	3865.7	3707.6	3388.1	2124.8
37.5°	4066.6	4080.1	4075.9	4004.1	4039.5	4227.8	4312.1	4258.0	4174.8	3851.2	2369.4
40°	4107.1	4116.5	4095.7	4180.0	4280.9	4495.3	4800.2	4710.7	4679.4	4320.5	2709.6
42.5°	4130.0	4122.7	4122.7	4268.4	4421.4	4852.2	5271.5	5212.2	5188.3	4819.9	3103.0
45°	4031.2	3960.4	4036.4	4234.1	4542.1	5028.0	5648.2	5730.4	5696.1	5414.1	3562.9
47.5°	3661.8	3705.5	3748.1	4012.4	4395.4	4973.9	5879.2	6159.1	6222.6	5913.6	3864.7
50°	3103.0	3093.6	3182.1	3515.0	3980.2	4740.8	5834.5	6283.0	6398.5	6063.4	3928.2
52.5°	2257.0	2325.7	2421.4	2752.3	3303.8	4137.3	5257.0	5963.5	6117.5	5879.2	3886.5
55°	1314.2	1238.3	1453.7	1733.6	2253.9	3120.7	4444.3	5286.1	5571.2	5544.2	3676.3
57.5°	526.5	509.9	583.8	786.7	1175.8	1934.4	3232.0	4343.3	4800.2	5078.0	3231.0
60°	231.0	225.8	265.3	320.5	480.7	891.8	1767.9	2701.3	3177.9	3548.3	2223.7
62.5°	166.5	164.4	184.2	204.0	253.9	388.1	743.0	1088.4	1356.9	1638.9	995.8
65°	134.2	139.4	153.0	163.4	187.3	215.4	262.2	302.8	371.5	385.0	219.6
67.5°	109.3	113.4	125.9	137.4	141.5	116.5	120.7	106.1	106.1	94.7	76.0
70°	80.1	81.2	95.7	109.3	87.4	46.8	82.2	82.2	73.9	70.8	64.5
72.5°	59.3	60.4	71.8	67.6	34.3	29.1	60.4	66.6	60.4	57.2	52.0
75°	43.7	44.7	37.5	15.6	14.6	18.7	35.4	45.8	43.7	42.7	39.5
77.5°	8.3	6.2	5.2	7.3	10.4	15.6	22.9	28.1	29.1	31.2	29.1
80°	1.0	1.0	3.1	6.2	11.4	16.6	23.9	27.1	28.1	29.1	27.1
82.5°	0.0	1.0	3.1	6.2	11.4	15.6	20.8	23.9	26.0	27.1	26.0
85°	0.0	1.0	2.1	5.2	9.4	11.4	10.4	7.3	6.2	7.3	5.2
87.5°	0.0	0.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6	655.6
2.5°	663.9	659.7	645.2	629.5	616.0	622.3	616.0	610.8	612.9	610.8	608.7
5°	700.3	681.6	650.4	636.8	625.4	624.3	621.2	620.2	621.2	621.2	611.9
7.5°	734.6	704.5	671.2	656.6	643.1	644.1	636.8	636.8	635.8	630.6	628.5
10°	786.7	746.1	703.4	677.4	660.8	657.6	650.4	643.1	643.1	643.1	632.7
12.5°	843.9	792.9	734.6	704.5	684.7	669.1	657.6	655.6	644.1	642.0	636.8
15°	893.9	829.3	755.5	713.8	688.9	668.0	650.4	638.9	633.7	630.6	626.4
17.5°	942.8	860.6	766.9	713.8	686.8	662.8	644.1	633.7	621.2	623.3	615.0
20°	1008.3	893.9	770.0	700.3	667.0	644.1	619.1	613.9	606.7	600.4	602.5
22.5°	1071.8	917.8	760.7	683.7	635.8	608.7	596.2	590.0	586.9	581.7	574.4
25°	1129.0	943.8	746.1	653.5	602.5	582.7	571.3	570.2	562.9	562.9	549.4
27.5°	1187.3	953.2	721.1	618.1	573.4	561.9	556.7	554.6	551.5	544.2	534.9
30°	1253.9	956.3	684.7	581.7	547.3	534.9	542.1	547.3	533.8	520.3	524.4
32.5°	1309.0	949.0	641.0	547.3	528.6	522.4	536.9	542.1	526.5	512.0	504.7
35°	1375.6	931.3	598.3	520.3	509.9	522.4	534.9	534.9	503.6	485.9	481.8
37.5°	1476.6	911.5	558.8	497.4	490.1	516.1	532.8	521.3	472.4	450.6	445.4
40°	1584.8	899.1	520.3	474.5	479.7	505.7	515.1	479.7	429.8	416.2	412.1
42.5°	1741.9	874.1	485.9	454.7	470.3	491.1	491.1	427.7	408.9	401.7	400.6
45°	1937.5	856.4	455.8	438.1	456.8	462.0	445.4	400.6	387.1	385.0	386.1
47.5°	2033.3	822.1	424.6	418.3	431.8	432.9	389.2	378.8	367.3	364.2	362.1
50°	2018.7	760.7	384.0	392.3	411.0	400.6	354.8	356.9	346.5	345.5	340.3
52.5°	1916.7	663.9	343.4	363.2	384.0	353.8	326.7	324.7	324.7	311.1	305.9
55°	1699.3	534.9	294.5	319.5	344.4	297.6	290.3	288.2	283.0	270.5	267.4
57.5°	1345.5	392.3	221.6	248.7	292.4	252.9	251.8	242.5	228.9	219.6	219.6
60°	800.2	225.8	139.4	151.9	193.5	205.0	227.9	223.7	200.8	186.3	182.1
62.5°	365.2	116.5	88.4	90.5	104.1	133.2	179.0	207.1	174.8	149.8	147.8
65°	122.8	86.4	72.8	69.7	71.8	80.1	107.2	146.7	139.4	115.5	111.3
67.5°	74.9	77.0	68.7	63.5	63.5	62.4	61.4	66.6	82.2	80.1	81.2
70°	64.5	70.8	63.5	57.2	55.2	52.0	43.7	36.4	31.2	36.4	38.5
72.5°	52.0	56.2	54.1	48.9	43.7	39.5	31.2	23.9	17.7	15.6	15.6
75°	38.5	41.6	43.7	37.5	33.3	28.1	22.9	15.6	9.4	6.2	6.2
77.5°	28.1	31.2	32.3	29.1	25.0	19.8	14.6	10.4	5.2	2.1	2.1
80°	23.9	28.1	31.2	29.1	26.0	18.7	13.5	7.3	4.2	1.0	1.0
82.5°	22.9	28.1	31.2	28.1	25.0	17.7	13.5	8.3	3.1	1.0	1.0
85°	5.2	7.3	9.4	11.4	13.5	13.5	10.4	6.2	3.1	1.0	1.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.0	1.0	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)