

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: P527617

Luminaire Tested: **GALN-SA2C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527617
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-SA2C-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 6874 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

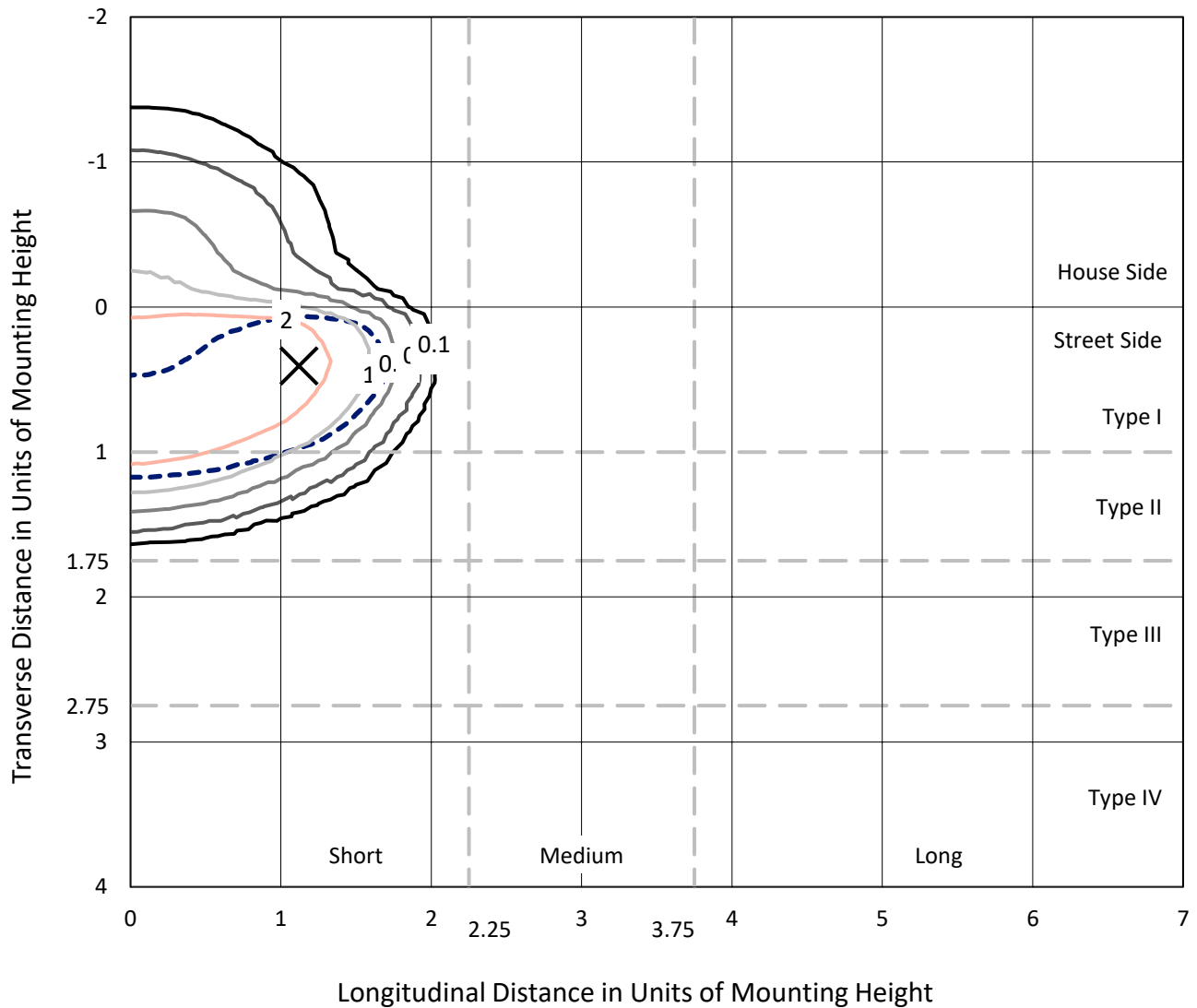
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

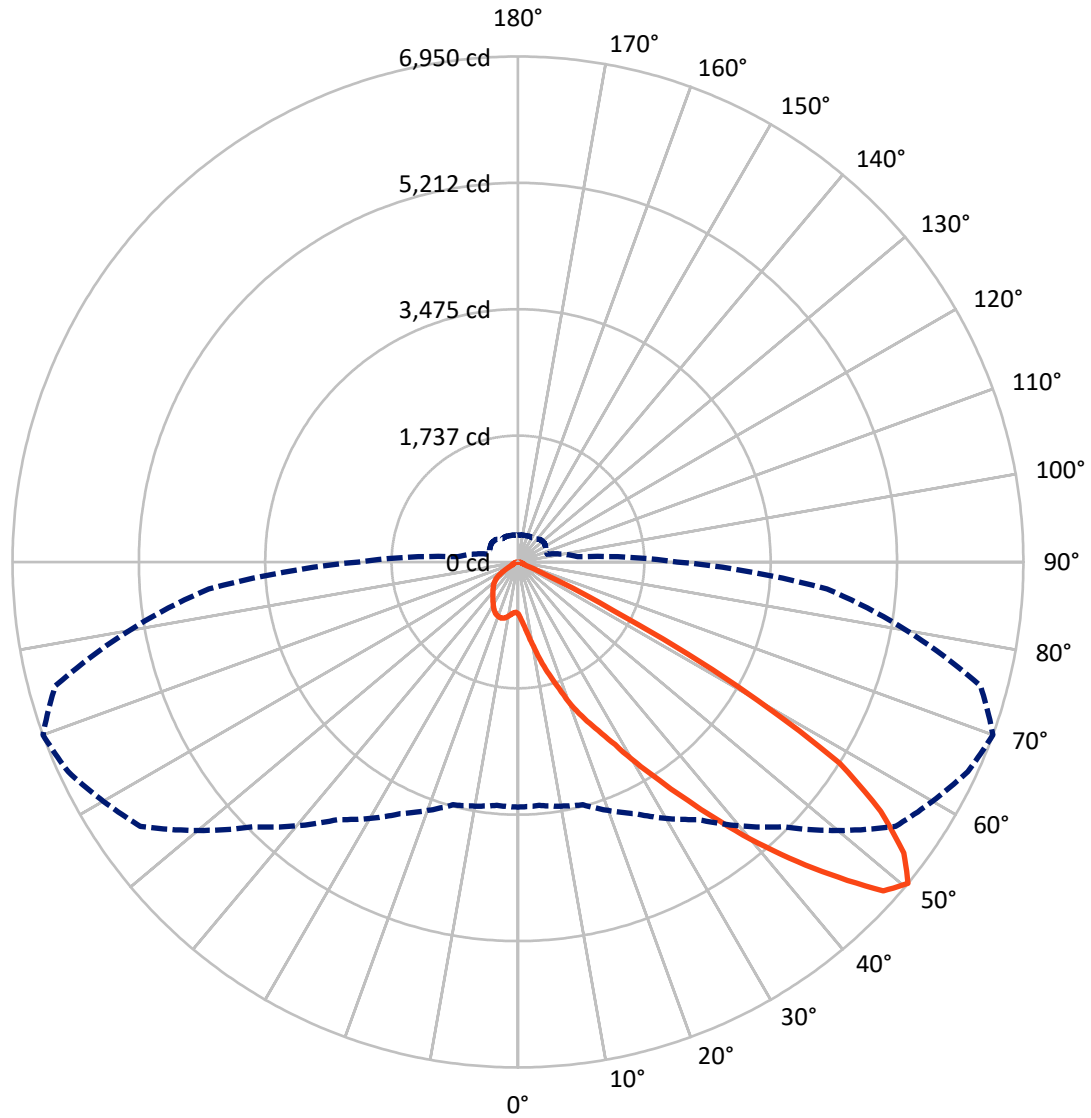
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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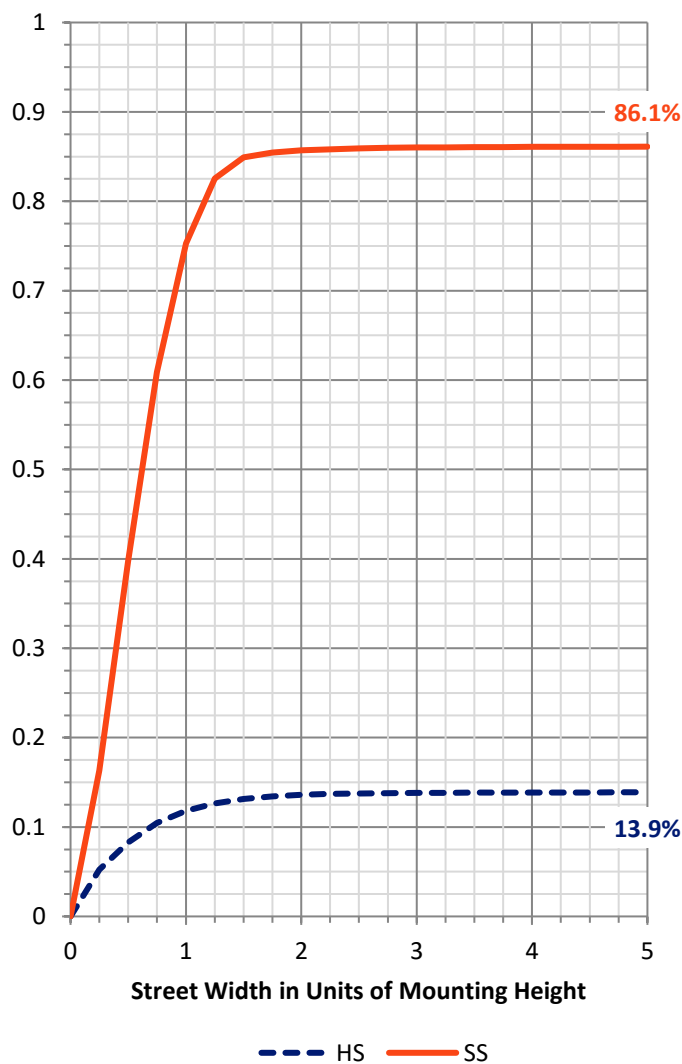
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	960.0	0.0	960.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5914.0	0.0	5914.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	6874.0	0.0	6874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.3
10°-20°	400.5	5.8
20°-30°	840.2	12.2
30°-40°	1448.2	21.1
40°-50°	2116.5	30.8
50°-60°	1648.4	24.0
60°-70°	279.3	4.1
70°-80°	38.4	0.6
80°-90°	9.9	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°	6874.0	100.0
0°-180°	6874.0	100.0

Coefficient of Utilization



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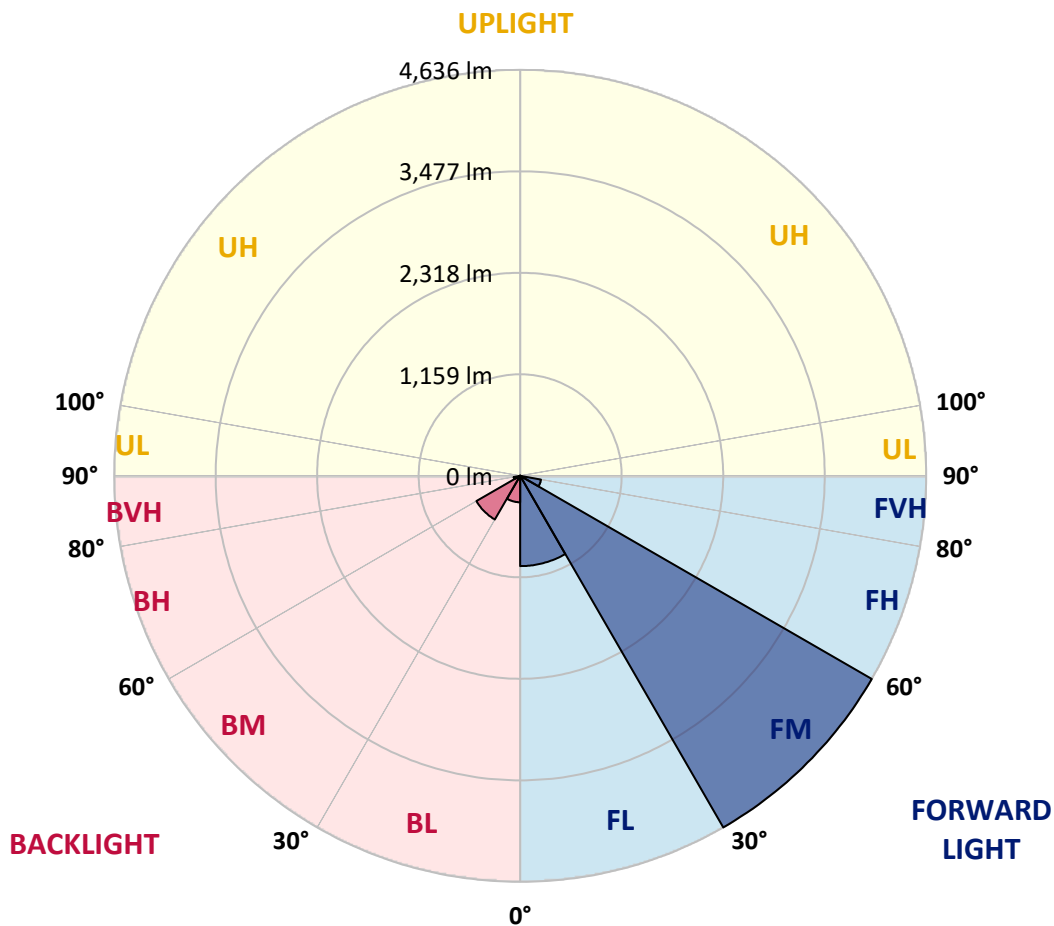
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.2	15.0			
FM (30°-60°)	4636.4	67.4			
FH (60°-80°)	241.8	3.5			G0/660
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	302.1	4.4	B1/500		
BM (30°-60°)	576.7	8.4	B1/1000		
BH (60°-80°)	75.8	1.1	B0/110		G0/110
BVH (80°-90°)	5.3	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°	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
2.5°	932.4	925.6	910.9	883.8	872.5	845.4	829.5	799.0	779.8	758.3	734.6
5°	1313.3	1278.2	1256.8	1226.2	1137.0	1081.6	990.0	912.1	875.9	836.3	782.1
7.5°	1706.6	1684.0	1654.6	1589.0	1528.0	1412.7	1255.6	1083.8	1010.4	942.6	835.2
10°	2032.1	1968.8	1965.4	1916.8	1850.1	1712.2	1523.5	1309.9	1178.8	1079.3	910.9
12.5°	2259.2	2201.6	2227.6	2221.9	2159.8	2033.2	1815.1	1532.5	1395.8	1240.9	988.9
15°	2466.0	2442.3	2434.4	2427.6	2402.8	2309.0	2113.4	1803.8	1606.0	1419.5	1077.1
17.5°	2668.3	2607.3	2636.7	2642.4	2640.1	2555.3	2372.2	2061.4	1828.6	1608.2	1169.7
20°	2848.0	2853.7	2814.1	2806.2	2799.4	2796.1	2617.5	2316.9	2102.1	1806.0	1290.7
22.5°	3078.6	3039.0	3074.1	3051.5	3007.4	2980.3	2843.5	2542.9	2339.5	2044.5	1413.9
25°	3351.0	3382.6	3300.1	3291.1	3242.5	3148.7	3025.5	2796.1	2567.8	2266.0	1547.2
27.5°	3686.6	3631.3	3609.8	3560.1	3471.9	3432.3	3287.7	3057.1	2843.5	2498.8	1676.1
30°	3974.8	3960.1	3852.8	3794.0	3717.1	3716.0	3513.7	3410.9	3202.9	2863.9	1853.5
32.5°	4209.9	4145.5	4105.9	4065.2	4003.1	4020.0	3849.4	3795.1	3586.0	3202.9	2062.6
35°	4367.0	4320.7	4296.9	4234.8	4216.7	4292.4	4221.2	4198.6	4026.8	3679.9	2307.8
37.5°	4416.7	4431.4	4426.9	4348.9	4387.3	4591.9	4683.5	4624.7	4534.3	4182.8	2573.4
40°	4460.8	4471.0	4448.4	4539.9	4649.5	4882.4	5213.5	5116.3	5082.4	4692.5	2943.0
42.5°	4485.7	4477.8	4477.8	4636.0	4802.1	5270.0	5725.5	5661.1	5635.1	5235.0	3370.2
45°	4378.3	4301.5	4384.0	4598.7	4933.2	5461.0	6134.6	6223.9	6186.6	5880.3	3869.7
47.5°	3977.1	4024.6	4070.9	4358.0	4773.9	5402.2	6385.5	6689.5	6758.5	6422.8	4197.5
50°	3370.2	3360.0	3456.1	3817.7	4322.9	5149.1	6336.9	6824.0	6949.5	6585.5	4266.4
52.5°	2451.4	2525.9	2629.9	2989.3	3588.3	4493.6	5709.7	6477.0	6644.3	6385.5	4221.2
55°	1427.4	1344.9	1578.9	1882.9	2448.0	3389.4	4827.0	5741.3	6051.0	6021.6	3992.9
57.5°	571.9	553.8	634.0	854.4	1277.1	2101.0	3510.3	4717.4	5213.5	5515.3	3509.2
60°	250.9	245.2	288.2	348.1	522.1	968.6	1920.2	2933.9	3451.6	3853.9	2415.2
62.5°	180.8	178.6	200.0	221.5	275.8	421.6	806.9	1182.2	1473.7	1780.0	1081.6
65°	145.8	151.4	166.1	177.4	203.4	233.9	284.8	328.9	403.5	418.2	238.5
67.5°	118.7	123.2	136.8	149.2	153.7	126.6	131.1	115.3	115.3	102.8	82.5
70°	87.0	88.2	104.0	118.7	94.9	50.9	89.3	89.3	80.2	76.9	70.1
72.5°	64.4	65.6	78.0	73.5	37.3	31.6	65.6	72.3	65.6	62.2	56.5
75°	47.5	48.6	40.7	17.0	15.8	20.3	38.4	49.7	47.5	46.3	42.9
77.5°	9.0	6.8	5.7	7.9	11.3	17.0	24.9	30.5	31.6	33.9	31.6
80°	1.1	1.1	3.4	6.8	12.4	18.1	26.0	29.4	30.5	31.6	29.4
82.5°	0.0	1.1	3.4	6.8	12.4	17.0	22.6	26.0	28.3	29.4	28.3
85°	0.0	1.1	2.3	5.7	10.2	12.4	11.3	7.9	6.8	7.9	5.7
87.5°	0.0	0.0	1.1	1.1	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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°	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
2.5°	721.1	716.5	700.7	683.8	669.1	675.8	669.1	663.4	665.7	663.4	661.2
5°	760.6	740.3	706.4	691.7	679.2	678.1	674.7	673.6	674.7	674.7	664.5
7.5°	797.9	765.1	729.0	713.1	698.4	699.6	691.7	691.7	690.5	684.9	682.6
10°	854.4	810.3	764.0	735.7	717.7	714.3	706.4	698.4	698.4	698.4	687.1
12.5°	916.6	861.2	797.9	765.1	743.7	726.7	714.3	712.0	699.6	697.3	691.7
15°	970.8	900.8	820.5	775.3	748.2	725.6	706.4	693.9	688.3	684.9	680.4
17.5°	1023.9	934.7	832.9	775.3	745.9	719.9	699.6	688.3	674.7	677.0	667.9
20°	1095.1	970.8	836.3	760.6	724.4	699.6	672.5	666.8	658.9	652.1	654.4
22.5°	1164.1	996.8	826.2	742.5	690.5	661.2	647.6	640.8	637.4	631.8	623.9
25°	1226.2	1025.1	810.3	709.8	654.4	632.9	620.5	619.3	611.4	611.4	596.7
27.5°	1289.5	1035.2	783.2	671.3	622.7	610.3	604.6	602.4	599.0	591.1	580.9
30°	1361.9	1038.6	743.7	631.8	594.5	580.9	588.8	594.5	579.8	565.1	569.6
32.5°	1421.8	1030.7	696.2	594.5	574.1	567.3	583.2	588.8	571.9	556.0	548.1
35°	1494.1	1011.5	649.9	565.1	553.8	567.3	580.9	580.9	547.0	527.8	523.3
37.5°	1603.7	990.0	606.9	540.2	532.3	560.6	578.7	566.2	513.1	489.4	483.7
40°	1721.3	976.5	565.1	515.4	521.0	549.3	559.4	521.0	466.8	452.1	447.5
42.5°	1891.9	949.3	527.8	493.9	510.8	533.4	533.4	464.5	444.2	436.2	435.1
45°	2104.4	930.1	495.0	475.8	496.1	501.8	483.7	435.1	420.4	418.2	419.3
47.5°	2208.4	892.8	461.1	454.3	469.0	470.2	422.7	411.4	399.0	395.6	393.3
50°	2192.5	826.2	417.0	426.1	446.4	435.1	385.4	387.7	376.3	375.2	369.6
52.5°	2081.8	721.1	373.0	394.4	417.0	384.3	354.9	352.6	352.6	337.9	332.3
55°	1845.6	580.9	319.8	347.0	374.1	323.2	315.3	313.1	307.4	293.8	290.5
57.5°	1461.3	426.1	240.7	270.1	317.6	274.6	273.5	263.3	248.6	238.5	238.5
60°	869.1	245.2	151.4	165.0	210.2	222.6	247.5	243.0	218.1	202.3	197.8
62.5°	396.7	126.6	96.1	98.3	113.0	144.7	194.4	224.9	189.9	162.7	160.5
65°	133.4	93.8	79.1	75.7	78.0	87.0	116.4	159.4	151.4	125.4	120.9
67.5°	81.4	83.6	74.6	68.9	68.9	67.8	66.7	72.3	89.3	87.0	88.2
70°	70.1	76.9	68.9	62.2	59.9	56.5	47.5	39.6	33.9	39.6	41.8
72.5°	56.5	61.0	58.8	53.1	47.5	42.9	33.9	26.0	19.2	17.0	17.0
75°	41.8	45.2	47.5	40.7	36.2	30.5	24.9	17.0	10.2	6.8	6.8
77.5°	30.5	33.9	35.0	31.6	27.1	21.5	15.8	11.3	5.7	2.3	2.3
80°	26.0	30.5	33.9	31.6	28.3	20.3	14.7	7.9	4.5	1.1	1.1
82.5°	24.9	30.5	33.9	30.5	27.1	19.2	14.7	9.0	3.4	1.1	1.1
85°	5.7	7.9	10.2	12.4	14.7	14.7	11.3	6.8	3.4	1.1	1.1
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.1	1.1	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)