

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: P451498

Luminaire Tested: **GALN-SA2B-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6892 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

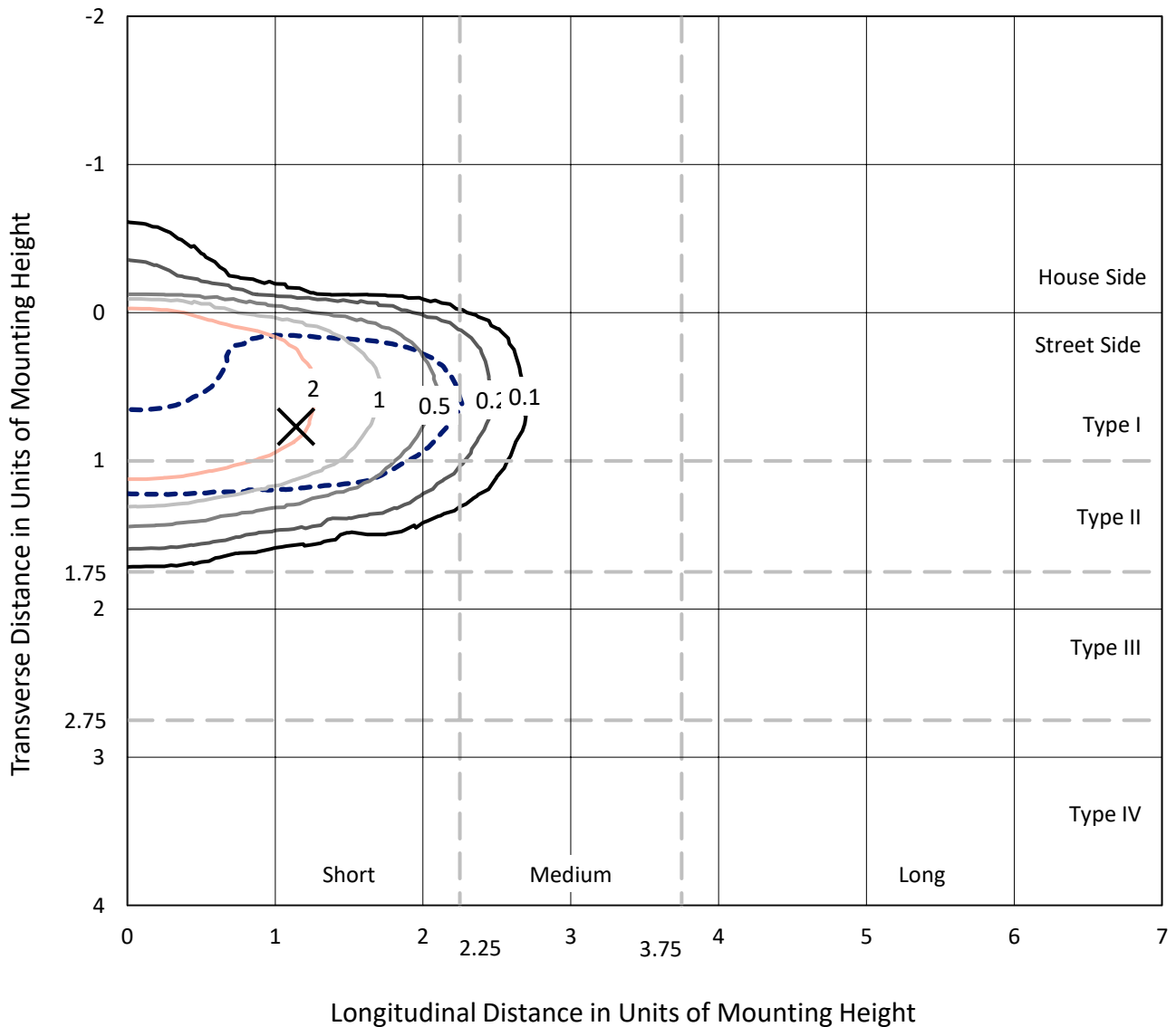
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

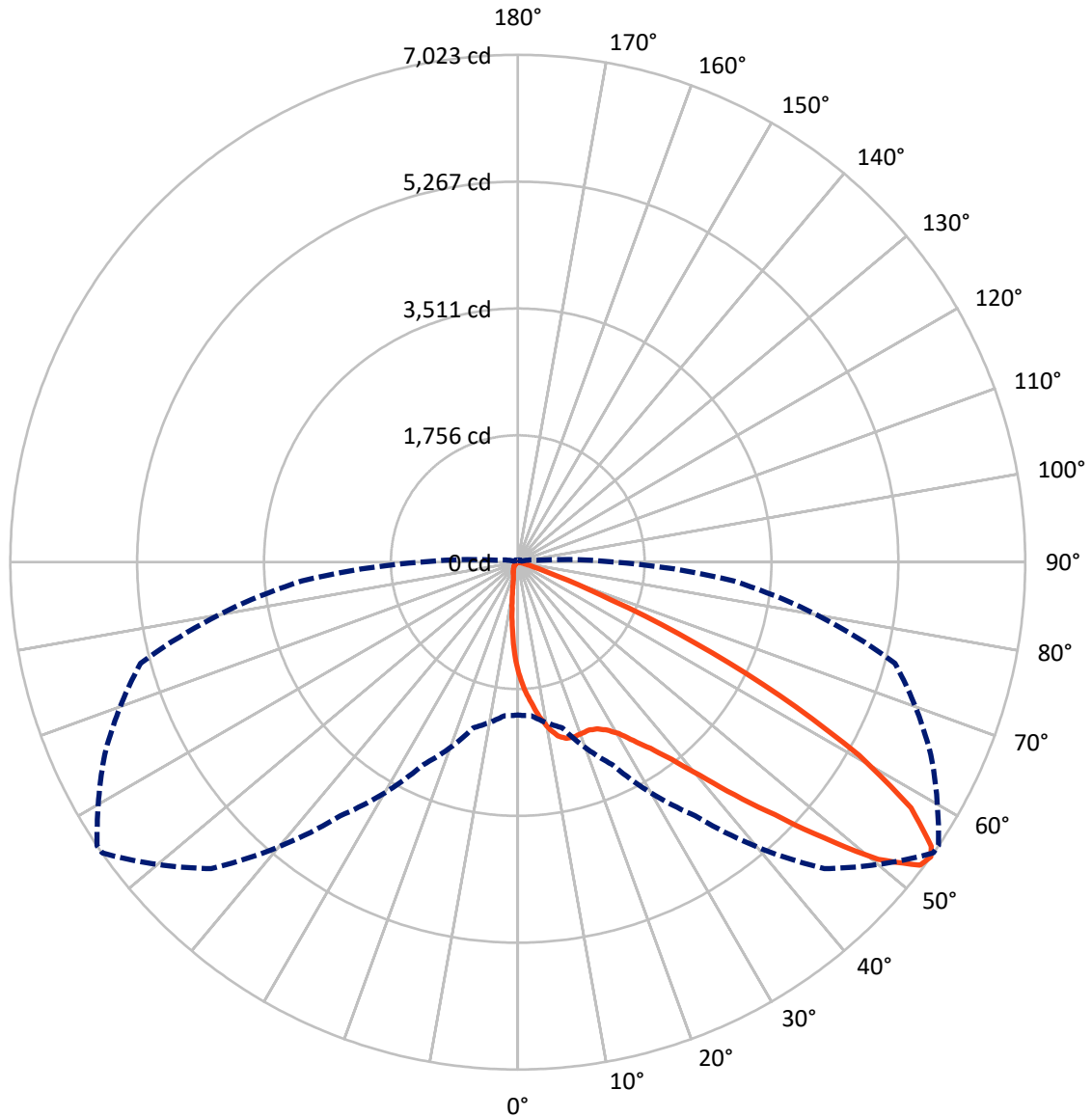
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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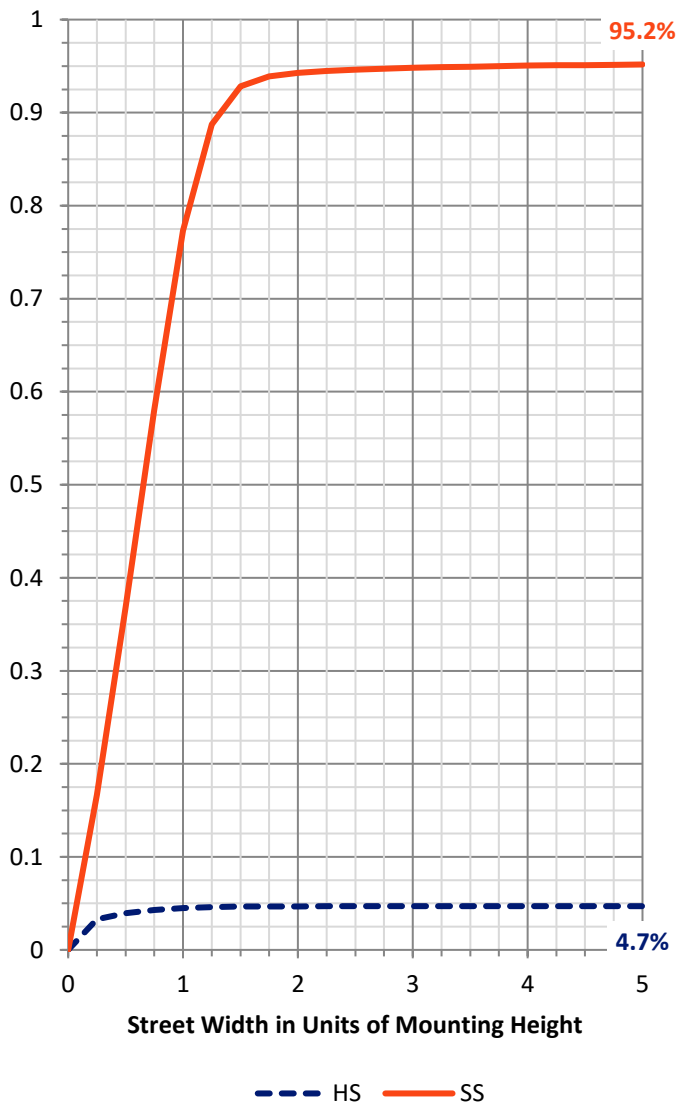
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	325.9	0.0	325.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	6566.1	0.0	6566.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	6892.0	0.0	6892.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	2.0
10°-20°	365.8	5.3
20°-30°	633.5	9.2
30°-40°	1093.5	15.9
40°-50°	1861.2	27.0
50°-60°	1841.9	26.7
60°-70°	840.7	12.2
70°-80°	108.0	1.6
80°-90°	12.2	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°	6892.0	100.0
0°-180°	6892.0	100.0



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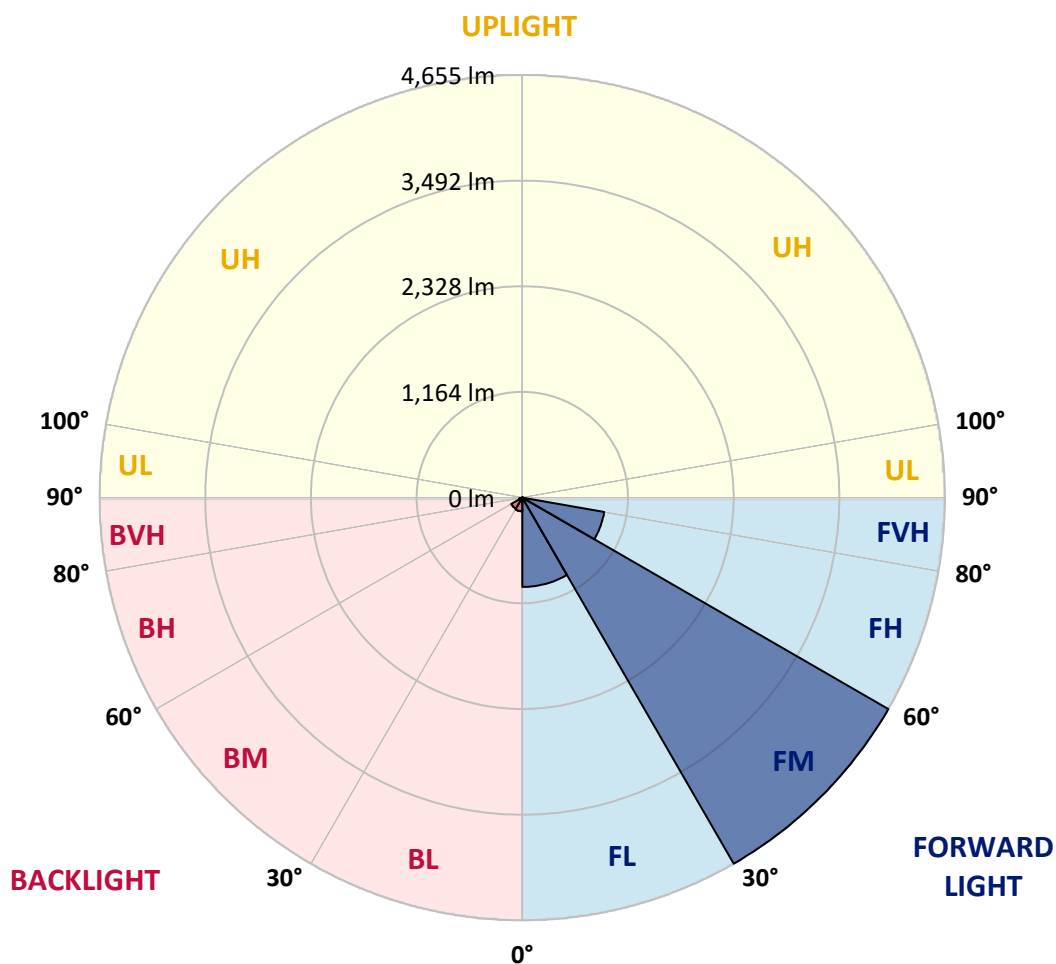
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.9	14.3			
FM (30°-60°)	4655.4	67.5			
FH (60°-80°)	916.0	13.3			G1/1800
FVH (80°-90°)	10.9	0.2			G1/100
BL (0°-30°)	150.7	2.2	B1/500		
BM (30°-60°)	141.2	2.0	B0/220		
BH (60°-80°)	32.6	0.5	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2
2.5°	1946.0	1932.5	1913.9	1899.5	1865.5	1816.7	1765.1	1765.1	1715.3	1646.1	1575.4
5°	2244.5	2235.7	2217.5	2180.3	2142.2	2073.8	1970.2	1952.0	1863.2	1737.7	1605.6
7.5°	2365.9	2370.0	2371.0	2361.2	2343.1	2275.6	2172.9	2160.3	2018.5	1850.2	1645.1
10°	2249.6	2270.1	2290.1	2330.5	2387.7	2404.0	2345.9	2332.8	2193.3	1964.1	1687.9
12.5°	2076.6	2087.8	2099.0	2162.7	2277.5	2409.1	2470.0	2469.5	2351.4	2077.6	1742.3
15°	1996.2	2006.0	2006.9	2035.3	2134.8	2326.3	2523.0	2530.0	2505.8	2217.5	1800.9
17.5°	2012.9	2020.8	2014.3	2021.3	2073.4	2235.2	2517.0	2540.2	2630.9	2351.9	1853.9
20°	2122.2	2137.5	2112.4	2092.9	2108.7	2211.0	2496.5	2529.1	2719.2	2483.0	1902.3
22.5°	2318.4	2326.8	2295.2	2241.7	2213.8	2261.7	2490.9	2523.0	2794.6	2590.4	1930.2
25°	2536.5	2533.7	2498.8	2438.9	2380.3	2364.0	2527.7	2556.5	2856.9	2687.2	1938.5
27.5°	2754.6	2763.0	2704.4	2630.0	2559.8	2517.4	2610.0	2631.4	2927.1	2797.4	1948.8
30°	3008.0	2994.5	2936.9	2851.8	2771.3	2712.3	2742.5	2748.5	3023.8	2943.4	1975.7
32.5°	3337.7	3300.5	3235.8	3087.1	3029.4	2929.4	2936.9	2944.3	3141.5	3088.0	2008.3
35°	3785.0	3783.1	3656.7	3456.3	3315.8	3191.7	3159.1	3165.2	3319.5	3302.8	2080.4
37.5°	4323.5	4330.9	4186.7	3984.9	3726.4	3529.3	3462.3	3463.2	3590.2	3599.5	2190.1
40°	4761.9	4781.5	4695.4	4559.2	4303.9	3995.6	3883.1	3872.9	3970.5	3958.9	2346.8
42.5°	4950.7	4968.9	5000.9	5048.4	4907.9	4653.6	4388.1	4402.0	4431.8	4350.4	2522.6
45°	4858.2	4887.0	5013.0	5306.0	5438.0	5352.5	5035.8	4987.0	4861.0	4775.9	2699.3
47.5°	4472.7	4542.9	4753.6	5241.3	5703.5	5992.8	5766.8	5702.1	5290.6	5086.5	2811.8
50°	3838.9	3843.1	4136.5	4760.1	5565.9	6396.8	6513.1	6464.7	5691.0	5260.9	2868.5
52.5°	2783.0	2874.6	3143.3	3865.4	4969.8	6335.5	6988.8	6968.8	6103.9	5350.1	2950.3
54°	2115.7	2133.4	2372.4	3088.9	4284.9	5998.3	7018.1	7022.7	6309.0	5404.1	2998.7
55°	1734.4	1692.1	1943.2	2631.4	3817.5	5700.3	6922.3	6944.6	6401.0	5432.0	3034.5
57.5°	822.1	822.6	1014.6	1388.0	2391.0	4426.2	6336.9	6415.9	6411.2	5479.9	3144.7
60°	416.2	419.0	461.3	640.8	1181.1	2942.4	5239.5	5427.8	5917.9	5486.9	3181.0
62.5°	291.1	287.8	280.9	308.3	497.1	1495.4	3900.8	4064.5	5027.9	5221.3	3065.7
65°	249.2	242.3	222.7	218.5	251.1	595.6	2429.6	2696.5	3838.9	4521.1	2737.4
67.5°	213.0	210.2	192.5	181.8	177.6	259.5	1253.6	1394.0	2623.9	3249.8	2073.4
70°	180.9	179.5	168.8	155.3	143.7	155.3	465.0	576.1	1462.4	1749.7	978.3
72.5°	146.9	148.3	150.2	133.0	120.9	110.2	198.5	231.1	611.9	625.4	342.2
75°	128.8	127.4	127.4	115.8	100.9	81.8	109.3	117.6	187.4	173.9	79.5
77.5°	90.7	87.4	102.3	95.3	84.2	58.1	62.3	66.0	77.7	66.5	37.2
80°	62.8	62.8	65.6	85.6	75.8	42.3	38.1	40.9	46.0	39.5	21.4
82.5°	35.3	36.3	42.8	45.6	44.2	28.4	25.1	25.6	30.7	27.0	13.5
85°	4.2	7.0	24.6	24.2	18.1	12.6	13.9	14.4	19.1	16.7	7.9
87.5°	0.5	0.9	5.1	6.5	4.6	5.1	5.1	5.1	6.5	7.4	5.6
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°	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2	1531.2
2.5°	1537.2	1501.9	1417.7	1320.1	1257.8	1156.4	1070.9	1009.0	993.7	963.9	972.8
5°	1535.4	1461.9	1290.3	1109.0	915.6	771.4	664.0	579.4	542.2	517.5	500.3
7.5°	1536.3	1421.5	1146.2	857.4	626.3	485.0	385.5	333.9	299.5	285.0	286.9
10°	1539.1	1375.9	978.8	635.2	422.7	313.4	252.5	227.8	216.2	214.4	213.9
12.5°	1545.6	1326.1	818.8	471.5	295.7	227.8	204.6	196.2	192.5	192.5	191.1
15°	1552.6	1271.3	685.9	350.6	227.8	195.8	185.1	180.9	178.6	178.6	178.1
17.5°	1552.6	1208.0	561.7	272.0	196.2	180.0	171.6	166.0	164.1	164.1	163.7
20°	1542.8	1134.6	451.5	219.0	178.1	165.1	156.7	150.7	148.3	147.4	146.9
22.5°	1508.9	1036.5	359.4	188.3	163.2	152.1	141.4	134.4	132.5	131.6	132.1
25°	1448.4	925.8	284.6	165.5	149.7	136.2	126.9	121.8	120.0	120.0	120.4
27.5°	1386.1	810.0	225.5	148.3	133.5	121.4	113.9	110.7	110.2	111.6	112.1
30°	1328.5	693.8	182.7	134.4	119.0	108.8	103.7	102.8	102.8	103.2	103.7
32.5°	1264.3	591.9	153.0	122.3	107.4	98.6	95.8	95.8	96.7	96.7	97.6
35°	1223.8	504.5	134.4	110.7	98.6	91.1	89.3	89.7	91.1	93.0	93.9
37.5°	1202.0	434.8	122.3	101.4	90.2	85.1	83.2	84.2	87.4	90.7	91.1
40°	1203.9	382.2	112.5	93.5	83.7	78.1	76.7	79.5	82.8	86.0	86.5
42.5°	1224.3	343.2	103.2	84.2	78.1	70.2	69.7	72.5	73.9	77.2	77.7
45°	1248.5	314.8	93.5	74.4	67.9	60.9	61.4	63.7	65.6	70.7	71.6
47.5°	1255.9	295.3	82.3	63.2	55.8	53.5	53.9	55.3	59.1	63.7	64.2
50°	1264.3	283.2	71.6	53.5	47.4	47.0	47.4	48.4	50.7	52.5	52.1
52.5°	1300.1	282.7	62.8	46.5	40.5	41.4	41.8	41.4	39.5	36.7	35.8
54°	1333.6	284.1	58.6	43.2	37.2	38.6	38.1	35.8	31.2	28.4	27.0
55°	1360.6	285.5	56.3	40.9	35.3	35.8	36.3	31.6	25.6	22.8	21.9
57.5°	1413.6	282.2	50.7	35.8	31.2	29.3	28.8	20.9	13.9	12.1	11.2
60°	1387.1	254.8	46.0	30.7	26.5	23.7	19.5	11.6	7.0	5.1	5.1
62.5°	1282.9	216.2	40.9	25.1	21.9	18.1	10.2	6.5	3.3	1.9	1.4
65°	1147.6	181.8	36.7	20.0	17.2	11.6	5.6	4.2	1.4	0.0	0.0
67.5°	853.3	134.8	31.2	15.8	13.0	7.4	3.7	2.3	0.5	0.0	0.0
70°	395.2	82.3	26.5	12.1	9.3	5.6	2.8	1.4	0.0	0.0	0.0
72.5°	113.5	51.6	21.9	8.8	6.5	4.6	2.3	0.9	0.5	0.0	0.0
75°	39.5	41.4	16.3	6.5	5.1	3.3	1.9	0.9	0.5	0.0	0.0
77.5°	23.7	33.5	10.2	5.6	4.2	2.8	1.9	0.9	0.5	0.5	0.0
80°	13.5	22.3	6.5	4.6	3.7	2.3	1.4	0.9	0.5	0.5	0.0
82.5°	7.4	10.7	5.1	4.2	3.3	2.3	1.4	0.9	0.5	0.5	0.5
85°	6.0	5.6	4.2	3.7	2.8	1.9	1.4	0.5	0.0	0.0	0.0
87.5°	4.6	3.7	3.7	3.7	2.8	1.9	1.4	0.5	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)