

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: P322346

Luminaire Tested: **GLEON-SA2A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5108 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

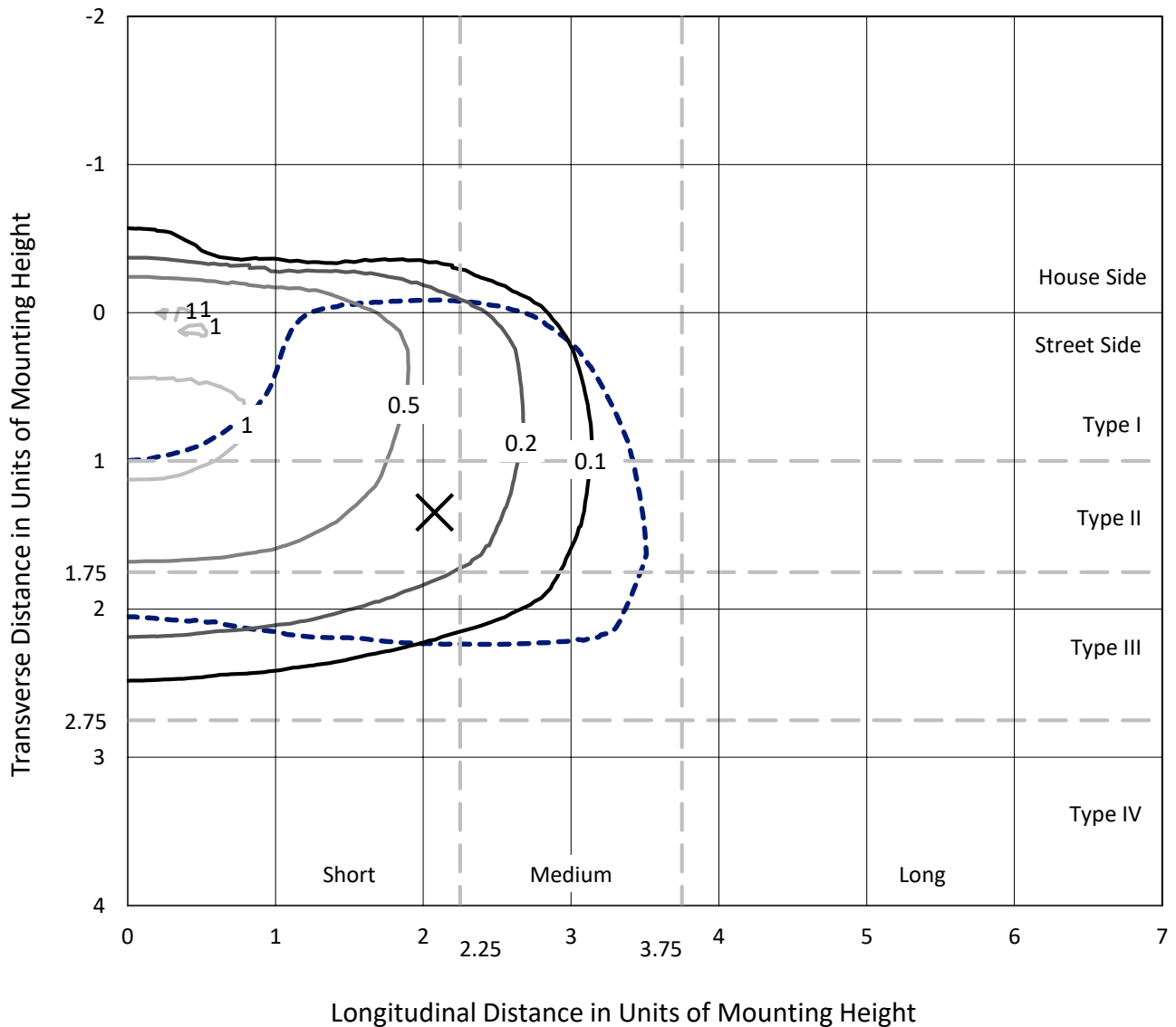
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

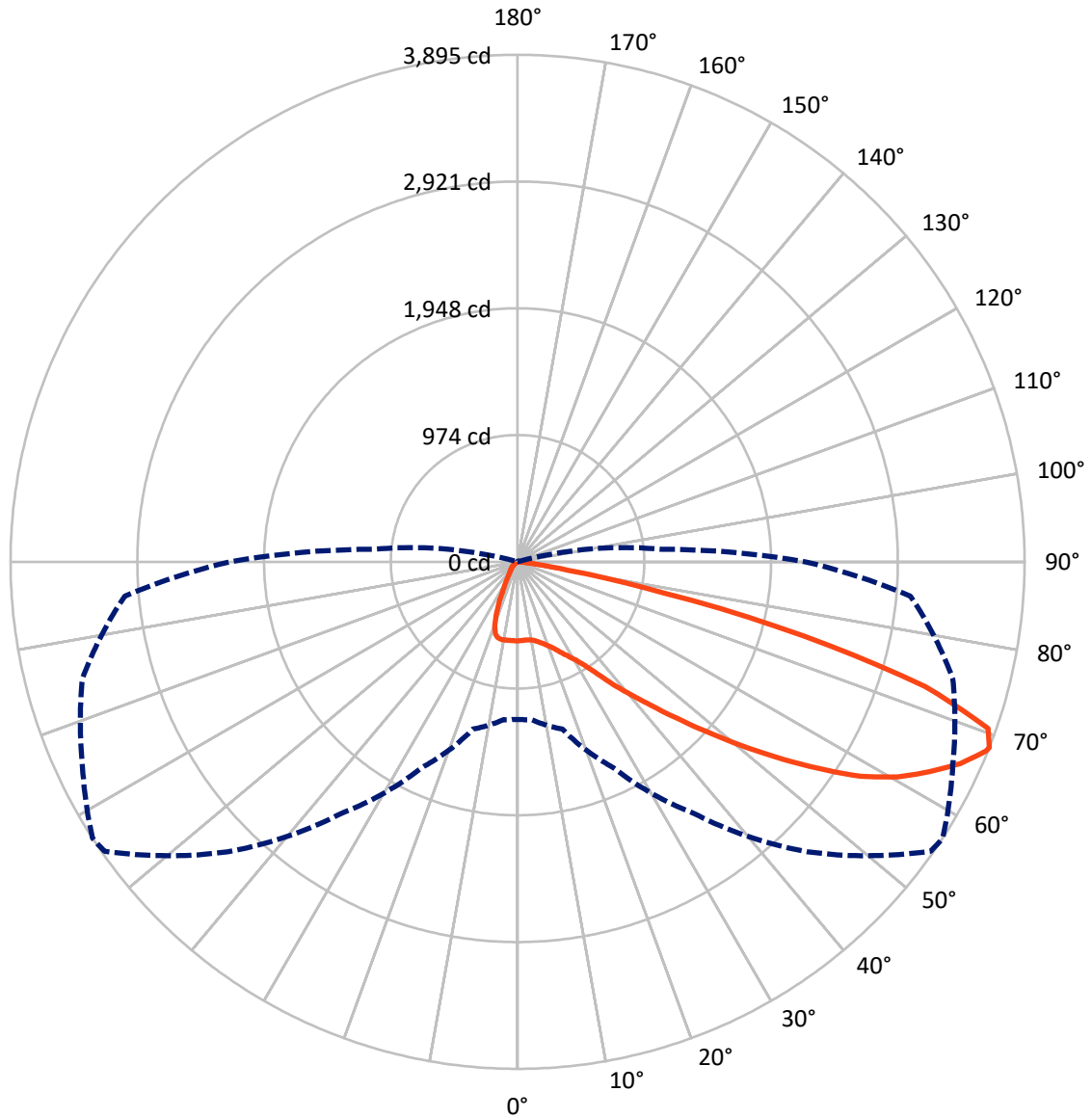
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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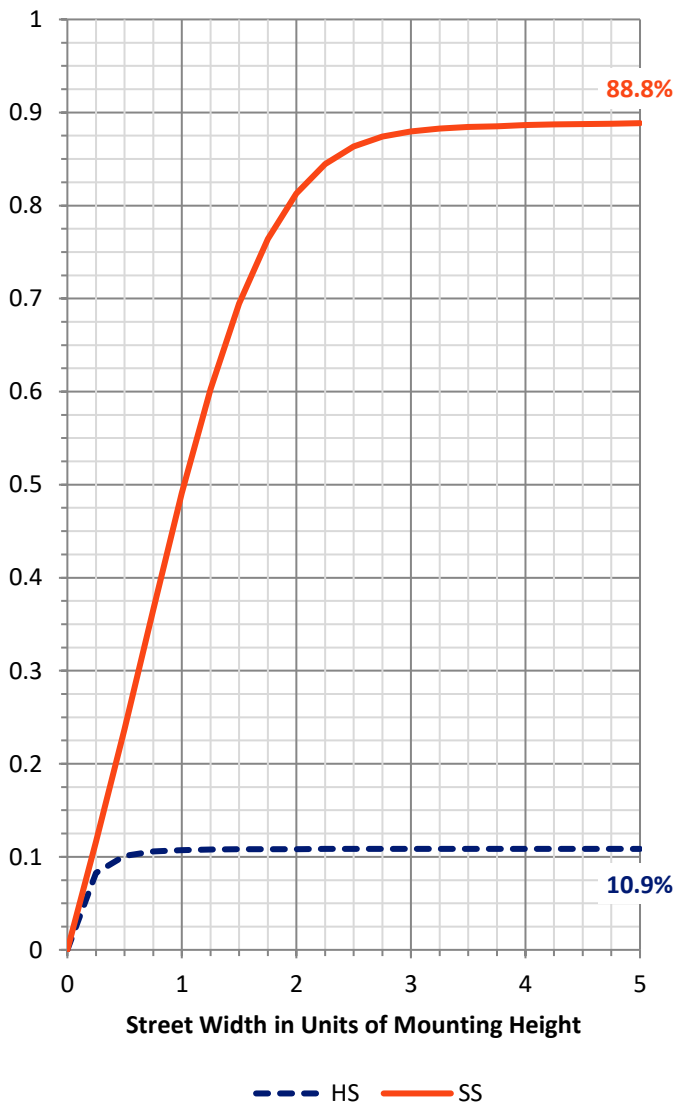
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.1	0.0	560.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4547.9	0.0	4547.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	5108.0	0.0	5108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.1
10°-20°	157.4	3.1
20°-30°	271.5	5.3
30°-40°	468.7	9.2
40°-50°	801.7	15.7
50°-60°	1282.6	25.1
60°-70°	1481.9	29.0
70°-80°	566.2	11.1
80°-90°	21.2	0.4
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°	5108.0	100.0
0°-180°	5108.0	100.0

Coefficient of Utilization



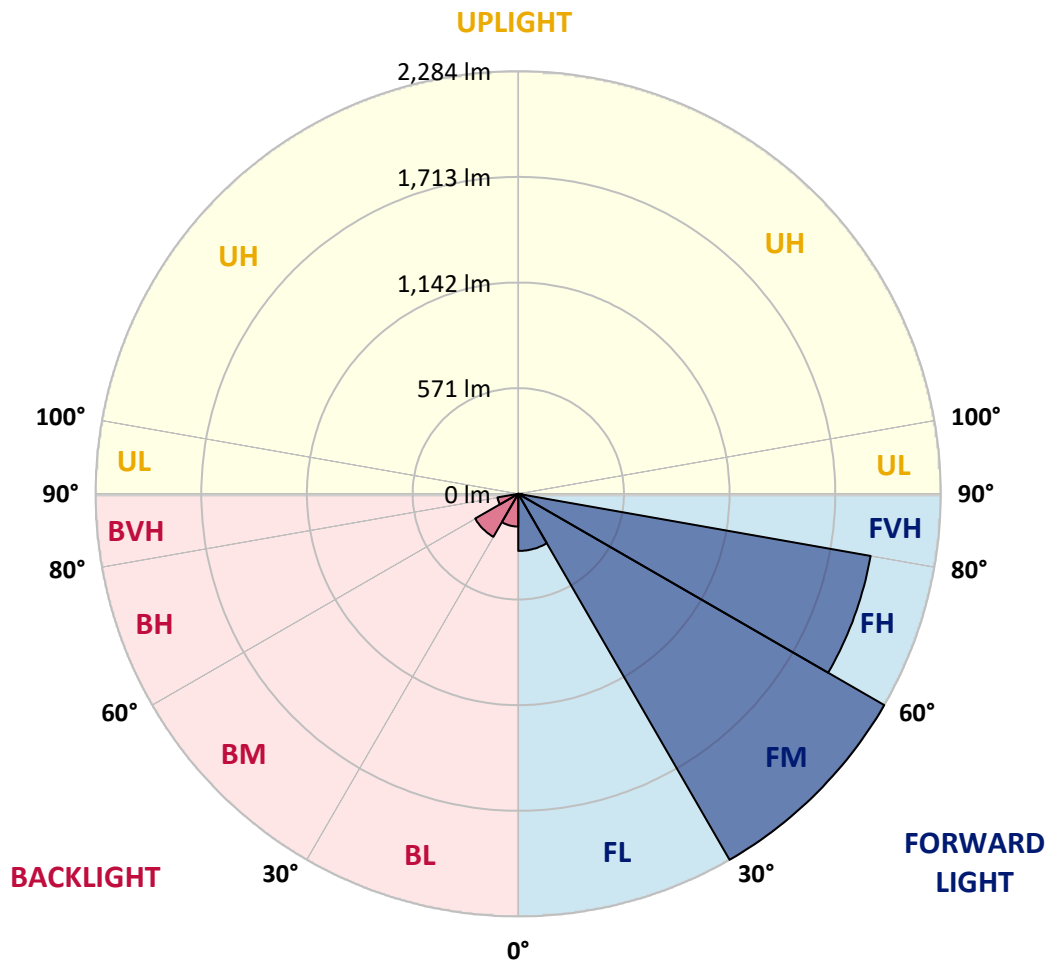
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.7	6.0			
FM (30°-60°)	2284.3	44.7			
FH (60°-80°)	1934.1	37.9			G2/5000
FVH (80°-90°)	20.8	0.4			G1/100
BL (0°-30°)	177.0	3.5	B1/500		
BM (30°-60°)	268.6	5.3	B1/1000		
BH (60°-80°)	114.1	2.2	B1/500		G1/500
BVH (80°-90°)	0.4	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0
2.5°	592.7	595.4	597.3	598.5	600.0	603.1	604.1	605.5	606.2	606.2	607.9
5°	569.3	572.2	576.3	579.7	586.4	595.1	601.4	603.8	608.2	612.0	614.2
7.5°	547.5	550.9	555.8	563.7	575.3	589.3	602.4	605.8	614.2	622.4	626.5
10°	533.5	536.2	542.5	553.8	569.0	588.6	607.0	611.1	625.6	639.3	647.1
12.5°	528.7	531.1	537.6	550.4	569.3	592.2	617.6	623.6	644.9	664.9	675.8
15°	535.7	536.2	543.2	555.3	573.9	601.2	635.2	642.5	669.3	695.4	708.9
17.5°	562.8	560.6	564.2	569.5	584.3	613.0	653.8	664.7	700.4	731.1	743.9
20°	630.4	630.4	622.2	607.7	607.9	631.4	678.9	691.3	735.0	770.5	782.1
22.5°	746.1	743.9	727.5	692.0	659.4	663.0	709.6	725.6	776.5	814.4	818.3
25°	885.2	882.6	857.2	807.2	750.7	714.2	751.2	769.5	826.0	859.6	851.6
27.5°	1032.5	1030.4	1005.2	943.2	862.7	795.8	800.7	818.1	876.5	909.6	884.2
30°	1175.3	1176.0	1151.1	1087.4	996.3	899.9	863.5	873.6	925.5	959.1	922.9
32.5°	1311.0	1312.0	1290.5	1219.2	1134.2	1020.9	950.4	947.8	982.5	1015.6	974.1
35°	1432.0	1434.4	1419.7	1364.4	1274.3	1155.7	1063.2	1056.9	1063.5	1100.9	1052.6
37.5°	1548.7	1550.1	1539.0	1492.4	1417.1	1303.8	1205.7	1196.8	1182.8	1211.5	1156.2
40°	1676.5	1672.8	1660.0	1617.8	1553.0	1467.3	1358.8	1343.4	1319.0	1344.6	1292.4
42.5°	1795.3	1791.2	1793.4	1745.5	1691.0	1635.4	1537.3	1510.8	1496.5	1526.0	1459.6
45°	1943.8	1941.7	1948.9	1907.4	1863.2	1822.8	1741.9	1712.9	1706.7	1741.2	1661.7
47.5°	2090.4	2095.8	2118.2	2100.6	2082.7	2047.2	1958.6	1945.5	1949.4	1991.2	1875.0
50°	2212.7	2218.9	2280.5	2300.8	2326.7	2305.9	2217.0	2209.0	2224.3	2261.9	2104.5
52.5°	2301.1	2313.9	2390.4	2483.9	2578.1	2592.1	2503.5	2496.2	2516.7	2522.5	2281.7
55°	2362.4	2373.8	2460.5	2631.5	2823.2	2883.6	2828.6	2800.5	2796.7	2739.4	2468.2
57.5°	2373.3	2372.1	2496.7	2726.9	3015.5	3171.3	3136.5	3109.0	3029.8	2939.9	2681.9
60°	2311.9	2318.9	2463.6	2760.0	3136.3	3388.9	3391.6	3355.8	3232.4	3134.8	2889.2
62.5°	2123.0	2151.5	2297.7	2673.3	3134.8	3476.6	3578.5	3551.2	3403.6	3294.5	3099.3
65°	1816.8	1826.9	1966.3	2376.2	2923.0	3439.9	3746.9	3736.7	3558.0	3449.5	3207.3
67.5°	1326.7	1304.7	1451.1	1871.1	2474.7	3225.9	3867.6	3880.4	3677.1	3481.4	3092.3
68°	1210.8	1217.3	1331.3	1746.3	2357.3	3150.3	3875.6	3895.2	3688.9	3460.6	3029.5
70°	721.7	734.3	835.9	1202.3	1793.4	2722.5	3789.6	3834.3	3618.4	3246.4	2620.4
72.5°	184.3	199.3	295.4	538.1	1024.3	1918.2	3199.1	3274.7	3141.6	2633.6	1769.0
75°	75.8	79.7	105.5	177.3	381.6	864.2	2108.6	2270.4	2177.9	1576.7	799.5
77.5°	52.4	55.1	67.9	98.3	165.2	293.0	1033.7	1150.6	1036.6	538.1	174.4
80°	37.7	39.9	48.5	65.5	94.9	104.6	336.9	389.6	309.4	118.1	43.2
82.5°	22.5	24.2	36.2	46.6	57.7	50.0	83.8	95.2	89.6	58.7	19.3
85°	11.1	13.0	24.4	33.3	31.2	21.0	25.6	28.5	35.3	35.7	10.4
87.5°	0.7	1.4	14.3	20.0	8.7	4.8	7.5	9.2	12.6	17.6	4.3
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°	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0
2.5°	608.7	608.9	607.2	606.5	607.0	604.1	602.9	603.3	603.3	604.1	602.9
5°	614.7	614.7	611.8	607.9	605.8	600.2	596.6	595.6	594.9	594.4	593.4
7.5°	627.7	626.3	621.2	612.8	605.5	593.4	584.3	579.4	577.0	576.0	575.3
10°	648.7	646.1	637.6	621.9	605.3	583.8	563.7	549.5	537.6	532.8	529.9
12.5°	677.0	673.1	658.9	632.8	603.6	564.0	520.5	478.7	439.8	423.9	415.9
15°	709.6	704.1	681.6	642.0	593.7	519.3	424.9	351.7	297.8	277.5	268.8
17.5°	742.7	735.5	701.4	647.8	564.0	426.8	298.0	225.1	189.1	179.5	176.1
20°	776.0	765.4	718.6	643.4	496.8	307.7	196.6	164.5	154.1	151.2	150.2
22.5°	807.7	791.3	734.0	626.5	393.5	206.5	155.5	145.4	142.0	140.3	139.8
25°	835.2	812.3	747.5	574.4	278.5	156.0	140.1	136.7	132.4	129.2	129.5
27.5°	861.1	833.3	755.7	488.4	185.7	133.3	129.7	125.1	117.1	112.6	112.6
30°	892.2	861.3	761.8	375.8	136.7	117.9	115.0	108.0	97.1	91.1	91.1
32.5°	939.1	903.8	757.9	263.8	113.3	103.6	96.9	87.2	75.4	69.6	69.3
35°	1010.8	969.5	730.4	172.9	100.0	90.1	79.2	67.4	57.0	52.2	51.9
37.5°	1107.4	1057.4	668.6	123.7	89.6	77.5	64.5	51.4	43.7	40.6	40.3
40°	1232.8	1159.6	580.2	100.2	79.9	65.5	49.8	39.9	34.5	32.1	32.4
42.5°	1383.2	1269.0	474.1	86.5	70.5	53.9	38.9	31.4	28.0	26.3	25.8
45°	1550.4	1377.0	363.0	77.0	61.1	43.5	30.4	24.9	22.2	21.3	21.3
47.5°	1734.2	1482.0	265.7	68.8	51.0	33.6	24.4	20.3	18.1	17.4	17.1
50°	1901.1	1555.0	191.5	60.1	41.8	26.6	19.8	16.9	15.5	14.5	14.5
52.5°	2040.2	1577.9	141.1	50.7	33.8	21.3	16.4	14.5	13.0	12.3	12.3
55°	2162.7	1568.5	104.8	41.8	27.3	17.4	14.0	12.3	11.1	10.4	10.4
57.5°	2280.0	1538.1	78.3	34.1	22.0	14.0	11.8	10.4	9.2	8.7	8.7
60°	2375.9	1487.3	58.2	27.5	17.6	11.4	9.9	8.5	7.5	6.8	6.8
62.5°	2453.7	1431.3	42.8	22.7	14.0	8.9	7.7	7.0	5.6	4.8	4.8
65°	2454.2	1338.3	32.1	18.8	10.9	7.0	5.8	5.6	3.6	2.9	2.7
67.5°	2276.7	1153.8	24.6	16.2	8.5	5.3	4.3	4.6	1.9	1.2	1.0
68°	2212.2	1106.9	23.2	15.9	8.0	5.1	4.1	4.6	1.7	1.0	0.7
70°	1865.1	880.6	18.6	15.5	7.0	3.9	3.4	4.6	1.4	0.7	0.5
72.5°	1192.9	511.1	13.8	12.3	5.3	2.9	2.2	4.1	1.4	0.5	0.2
75°	507.7	158.4	9.4	8.7	3.1	2.2	1.4	2.7	1.0	0.2	0.0
77.5°	107.0	35.7	5.6	5.3	2.2	1.4	1.0	0.7	0.2	0.0	0.0
80°	27.5	10.4	2.9	2.7	1.2	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.7	4.1	1.7	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.7	0.2	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)