

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: P646714

Luminaire Tested: **GALN-SA1C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646714
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-SA1C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4563.3 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

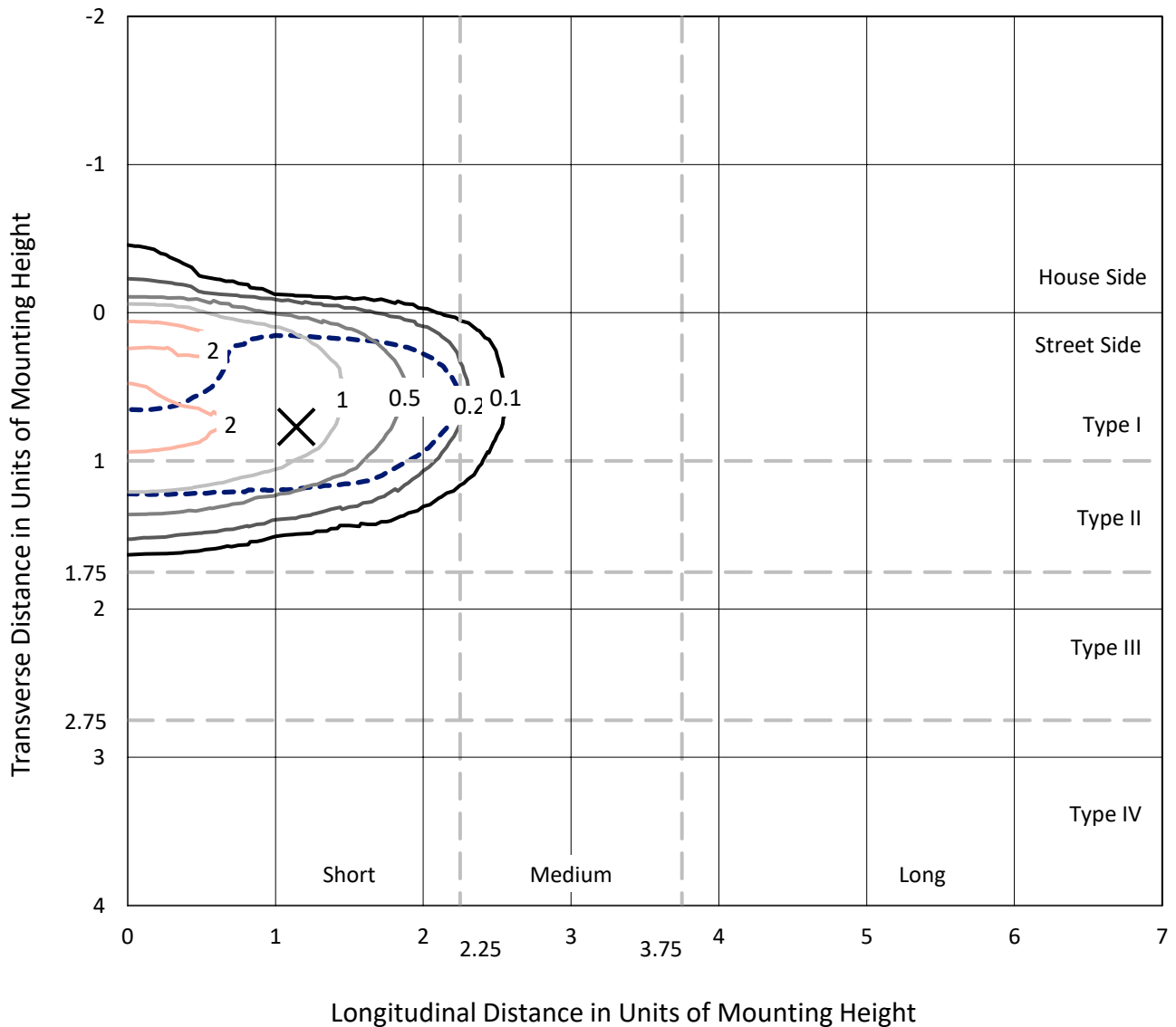
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

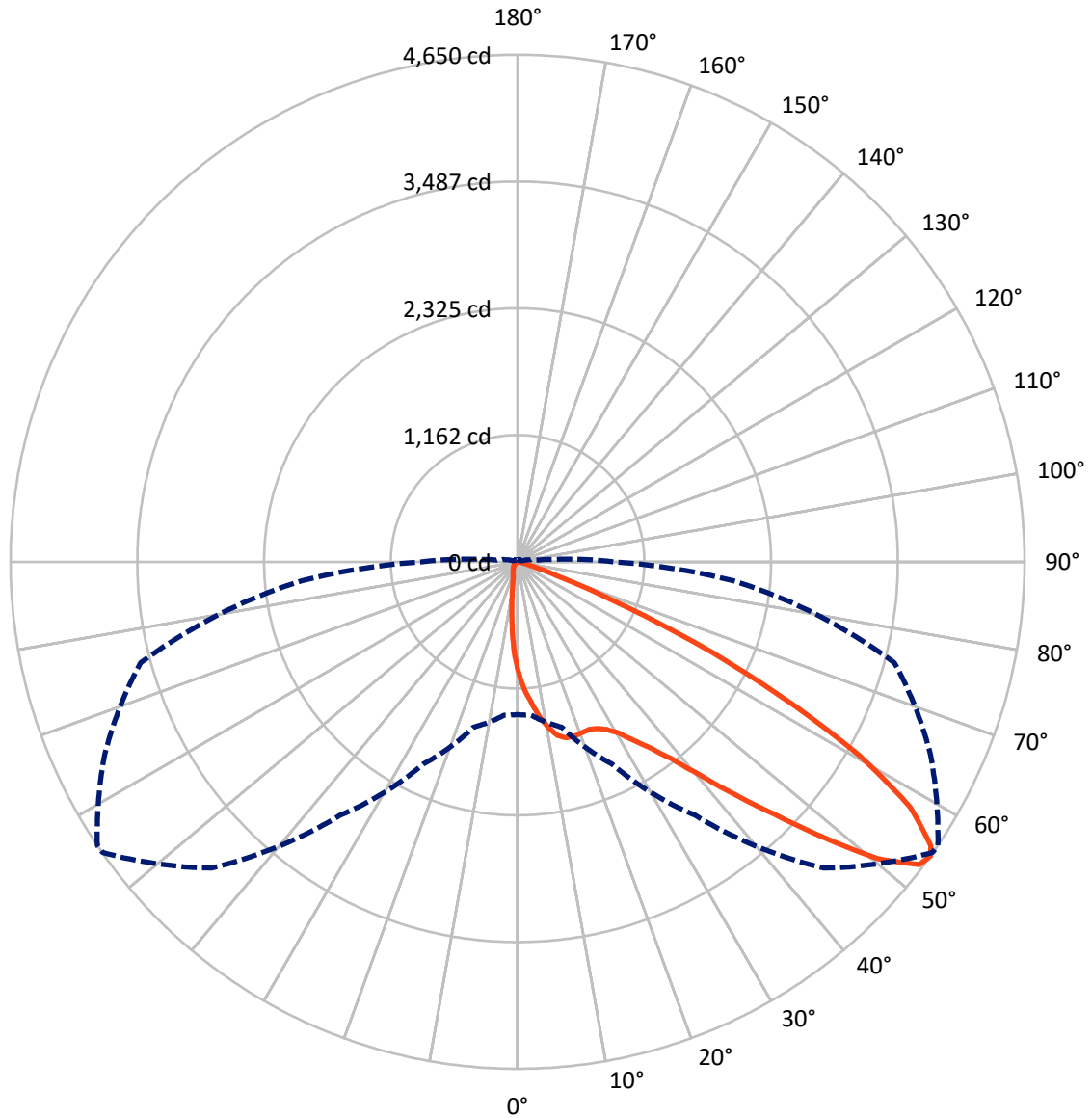
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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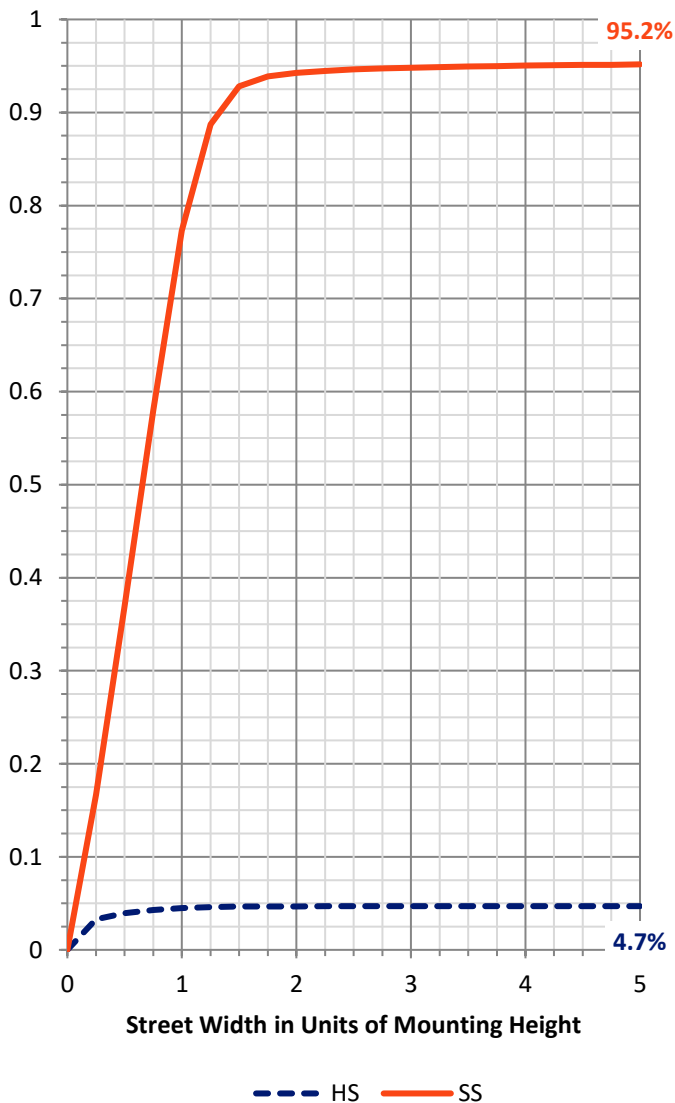
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	215.8	0.0	215.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	4347.5	0.0	4347.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	4563.3	0.0	4563.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	2.0
10°-20°	242.2	5.3
20°-30°	419.4	9.2
30°-40°	724.0	15.9
40°-50°	1232.3	27.0
50°-60°	1219.6	26.7
60°-70°	556.6	12.2
70°-80°	71.5	1.6
80°-90°	8.1	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°	4563.3	100.0
0°-180°	4563.3	100.0

Coefficient of Utilization

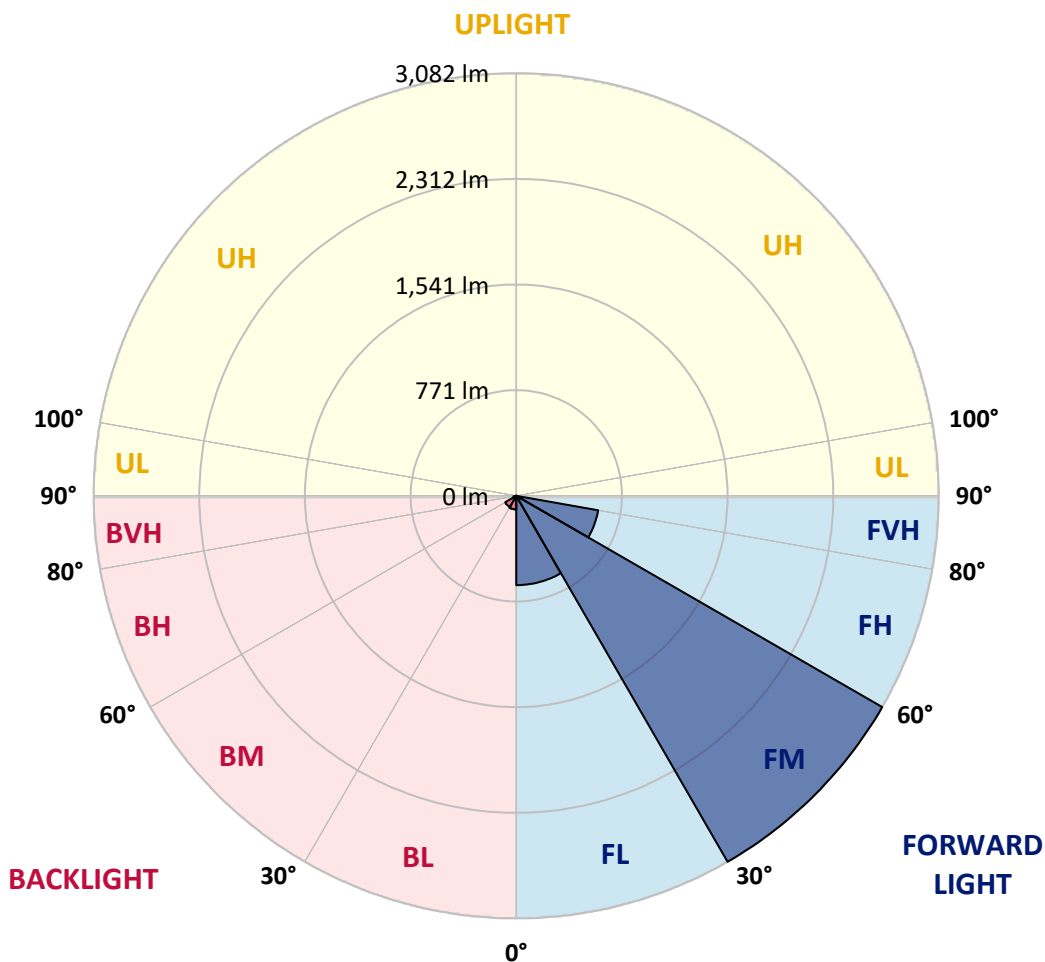


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.4	14.3			
FM (30°-60°)	3082.4	67.5			
FH (60°-80°)	606.5	13.3			G0/660
FVH (80°-90°)	7.2	0.2			G0/10
BL (0°-30°)	99.8	2.2	B0/110		
BM (30°-60°)	93.5	2.0	B0/220		
BH (60°-80°)	21.6	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	1288.5	1279.5	1267.2	1257.7	1235.2	1202.8	1168.7	1168.7	1135.7	1089.9	1043.1
5°	1486.1	1480.3	1468.3	1443.6	1418.4	1373.1	1304.5	1292.5	1233.7	1150.5	1063.1
7.5°	1566.5	1569.3	1569.8	1563.4	1551.4	1506.7	1438.7	1430.4	1336.5	1225.1	1089.2
10°	1489.5	1503.0	1516.3	1543.1	1581.0	1591.8	1553.2	1544.6	1452.2	1300.5	1117.6
12.5°	1374.9	1382.4	1389.7	1432.0	1508.0	1595.1	1635.5	1635.1	1556.9	1375.6	1153.6
15°	1321.7	1328.2	1328.8	1347.5	1413.5	1540.3	1670.5	1675.2	1659.2	1468.3	1192.4
17.5°	1332.8	1338.1	1333.8	1338.3	1372.8	1479.9	1666.5	1682.0	1741.9	1557.2	1227.5
20°	1405.2	1415.3	1398.7	1385.8	1396.2	1464.0	1653.0	1674.5	1800.4	1644.1	1259.5
22.5°	1535.1	1540.6	1519.6	1484.3	1465.8	1497.5	1649.3	1670.5	1850.3	1715.2	1278.0
25°	1679.5	1677.7	1654.6	1614.8	1576.0	1565.2	1673.6	1692.7	1891.6	1779.2	1283.6
27.5°	1823.8	1829.4	1790.6	1741.4	1694.9	1666.9	1728.1	1742.3	1938.1	1852.2	1290.3
30°	1991.6	1982.7	1944.6	1888.2	1835.0	1795.8	1815.9	1819.8	2002.1	1948.9	1308.2
32.5°	2209.9	2185.3	2142.5	2044.0	2005.8	1939.6	1944.6	1949.5	2080.0	2044.6	1329.7
35°	2506.1	2504.9	2421.1	2288.5	2195.5	2113.2	2091.7	2095.7	2198.0	2186.8	1377.5
37.5°	2862.6	2867.6	2772.1	2638.5	2467.3	2336.8	2292.5	2293.1	2377.1	2383.3	1450.1
40°	3153.0	3165.9	3109.0	3018.7	2849.7	2645.6	2571.1	2564.3	2629.0	2621.2	1553.9
42.5°	3278.0	3290.0	3311.2	3342.6	3249.6	3081.3	2905.4	2914.6	2934.4	2880.5	1670.2
45°	3216.7	3235.8	3319.2	3513.2	3600.6	3543.9	3334.3	3302.0	3218.5	3162.2	1787.2
47.5°	2961.5	3008.0	3147.4	3470.4	3776.4	3967.9	3818.3	3775.5	3503.1	3367.8	1861.7
50°	2541.9	2544.6	2738.9	3151.7	3685.3	4235.5	4312.5	4280.4	3768.1	3483.3	1899.3
52.5°	1842.6	1903.3	2081.2	2559.4	3290.6	4194.8	4627.4	4614.1	4041.5	3542.4	1953.5
54°	1400.9	1412.5	1570.8	2045.2	2837.1	3971.6	4646.8	4649.8	4177.3	3578.2	1985.5
55°	1148.3	1120.4	1286.6	1742.3	2527.7	3774.3	4583.4	4598.2	4238.2	3596.6	2009.2
57.5°	544.3	544.7	671.8	919.0	1583.1	2930.7	4195.8	4248.1	4245.0	3628.3	2082.2
60°	275.5	277.4	305.4	424.2	782.0	1948.3	3469.2	3593.8	3918.4	3633.0	2106.2
62.5°	192.7	190.6	186.0	204.1	329.1	990.1	2582.8	2691.2	3329.1	3457.2	2029.8
65°	165.1	160.4	147.4	144.7	166.2	394.4	1608.7	1785.4	2541.9	2993.5	1812.5
67.5°	141.0	139.1	127.5	120.3	117.6	171.8	830.1	923.0	1737.3	2151.8	1372.8
70°	119.8	118.9	111.7	102.8	95.1	102.8	307.9	381.5	968.3	1158.5	647.8
72.5°	97.3	98.2	99.4	88.1	80.0	73.0	131.5	153.0	405.2	414.1	226.6
75°	85.3	84.3	84.3	76.7	66.8	54.2	72.3	77.9	124.1	115.2	52.6
77.5°	60.1	57.9	67.7	63.1	55.7	38.5	41.3	43.7	51.4	44.0	24.7
80°	41.6	41.6	43.4	56.6	50.2	28.0	25.2	27.1	30.5	26.2	14.2
82.5°	23.4	24.0	28.3	30.1	29.3	18.8	16.6	16.9	20.4	17.9	8.9
85°	2.7	4.6	16.3	16.0	12.0	8.3	9.2	9.6	12.6	11.1	5.2
87.5°	0.3	0.6	3.4	4.3	3.1	3.4	3.4	3.4	4.3	4.9	3.7
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°	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8	1013.8
2.5°	1017.8	994.4	938.7	874.1	832.8	765.7	709.0	668.1	658.0	638.2	644.1
5°	1016.6	967.9	854.3	734.3	606.2	510.8	439.7	383.6	359.0	342.6	331.3
7.5°	1017.2	941.2	758.9	567.8	414.7	321.1	255.3	221.0	198.3	188.7	190.0
10°	1019.1	911.0	648.1	420.5	279.8	207.5	167.2	150.9	143.1	142.0	141.6
12.5°	1023.4	878.1	542.1	312.2	195.8	150.9	135.5	129.9	127.5	127.5	126.5
15°	1028.0	841.7	454.1	232.2	150.9	129.6	122.5	119.8	118.2	118.2	117.9
17.5°	1028.0	799.8	371.9	180.1	129.9	119.2	113.6	109.9	108.7	108.7	108.4
20°	1021.5	751.2	298.9	145.0	117.9	109.3	103.7	99.8	98.2	97.6	97.3
22.5°	999.0	686.2	238.0	124.7	108.1	100.7	93.6	88.9	87.8	87.1	87.5
25°	959.0	613.0	188.4	109.6	99.1	90.2	84.0	80.6	79.4	79.4	79.7
27.5°	917.8	536.4	149.3	98.2	88.3	80.3	75.4	73.3	73.0	73.9	74.2
30°	879.6	459.4	121.0	88.9	78.8	72.0	68.7	68.0	68.0	68.4	68.7
32.5°	837.1	391.9	101.3	81.0	71.1	65.3	63.4	63.4	64.0	64.0	64.7
35°	810.3	334.0	88.9	73.3	65.3	60.4	59.1	59.4	60.4	61.5	62.2
37.5°	795.8	287.8	81.0	67.1	59.7	56.4	55.1	55.7	57.9	60.1	60.4
40°	797.1	253.1	74.5	61.9	55.4	51.8	50.8	52.6	54.8	56.9	57.2
42.5°	810.6	227.2	68.4	55.7	51.8	46.5	46.2	48.0	48.9	51.1	51.4
45°	826.6	208.4	61.9	49.3	44.9	40.3	40.6	42.2	43.4	46.8	47.4
47.5°	831.5	195.5	54.5	41.9	37.0	35.4	35.7	36.6	39.1	42.2	42.5
50°	837.1	187.5	47.4	35.4	31.4	31.1	31.4	32.0	33.6	34.8	34.5
52.5°	860.8	187.2	41.6	30.8	26.8	27.4	27.7	27.4	26.2	24.4	23.7
54°	883.0	188.1	38.8	28.7	24.7	25.5	25.2	23.7	20.6	18.8	17.9
55°	900.8	189.0	37.3	27.1	23.4	23.7	24.0	20.9	16.9	15.1	14.5
57.5°	935.9	186.9	33.6	23.7	20.6	19.4	19.1	13.9	9.2	8.0	7.4
60°	918.4	168.7	30.5	20.4	17.5	15.7	12.9	7.7	4.6	3.4	3.4
62.5°	849.4	143.1	27.1	16.6	14.5	12.0	6.8	4.3	2.2	1.3	0.9
65°	759.8	120.3	24.4	13.2	11.4	7.7	3.7	2.7	0.9	0.0	0.0
67.5°	564.9	89.3	20.6	10.5	8.6	4.9	2.4	1.6	0.3	0.0	0.0
70°	261.7	54.5	17.5	8.0	6.2	3.7	1.9	0.9	0.0	0.0	0.0
72.5°	75.1	34.1	14.5	5.9	4.3	3.1	1.6	0.6	0.3	0.0	0.0
75°	26.2	27.4	10.8	4.3	3.4	2.2	1.3	0.6	0.3	0.0	0.0
77.5°	15.7	22.2	6.8	3.7	2.7	1.9	1.3	0.6	0.3	0.3	0.0
80°	8.9	14.8	4.3	3.1	2.4	1.6	0.9	0.6	0.3	0.3	0.0
82.5°	4.9	7.0	3.4	2.7	2.2	1.6	0.9	0.6	0.3	0.3	0.3
85°	4.0	3.7	2.7	2.4	1.9	1.3	0.9	0.3	0.0	0.0	0.0
87.5°	3.1	2.4	2.4	2.4	1.9	1.3	0.9	0.3	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)