

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: P650685

Luminaire Tested: **GALN-SA1C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4949.3 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

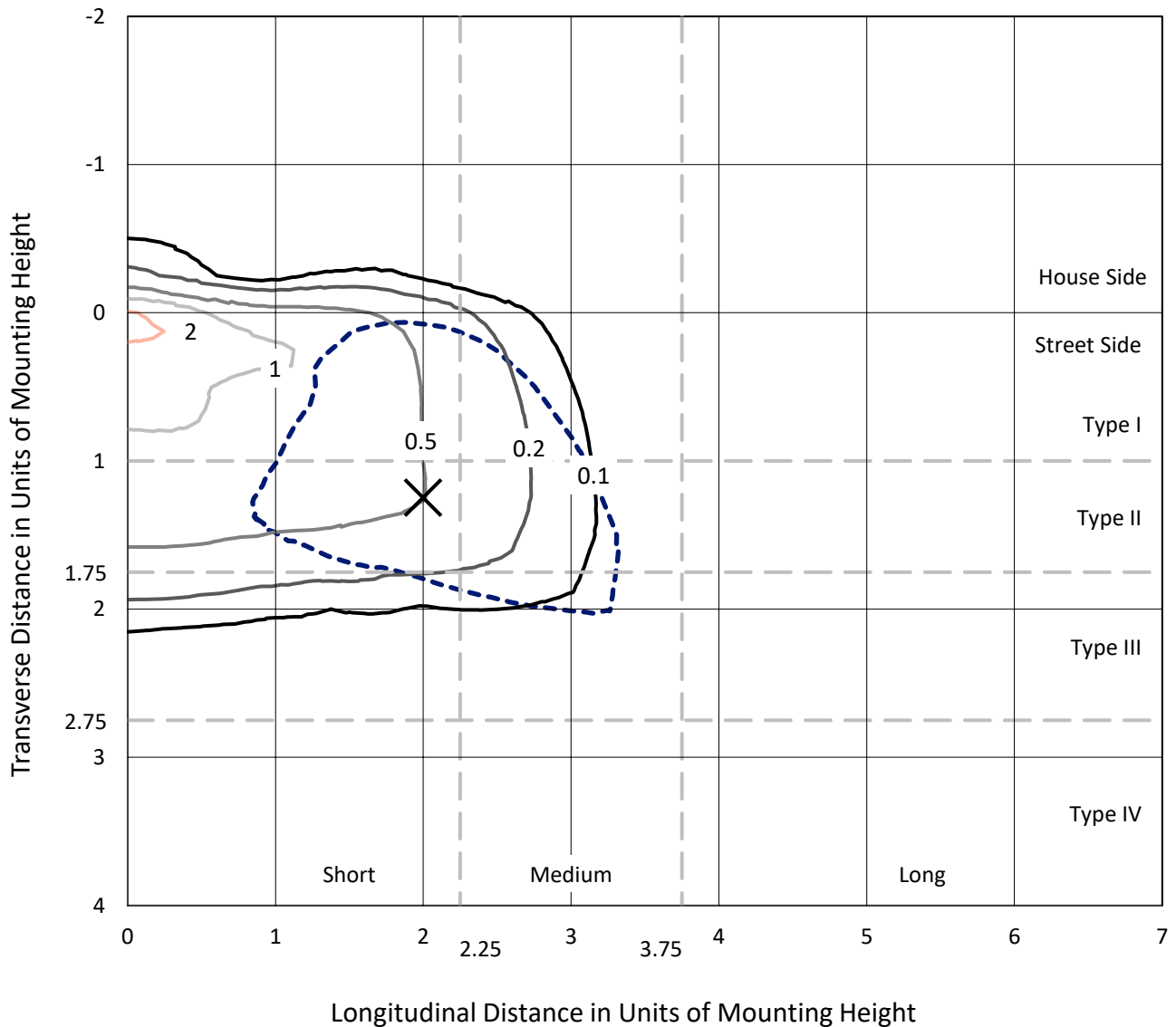
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

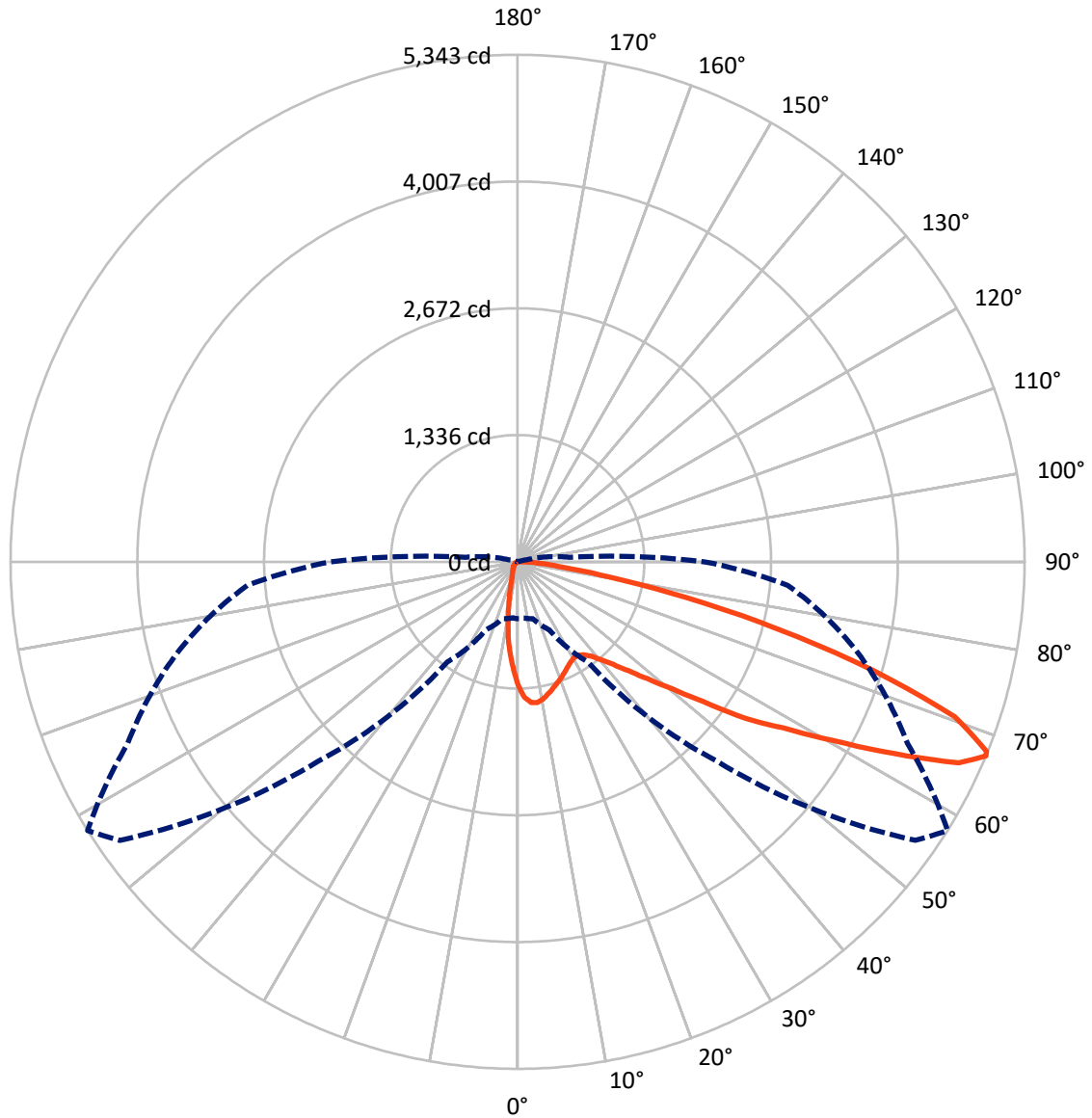
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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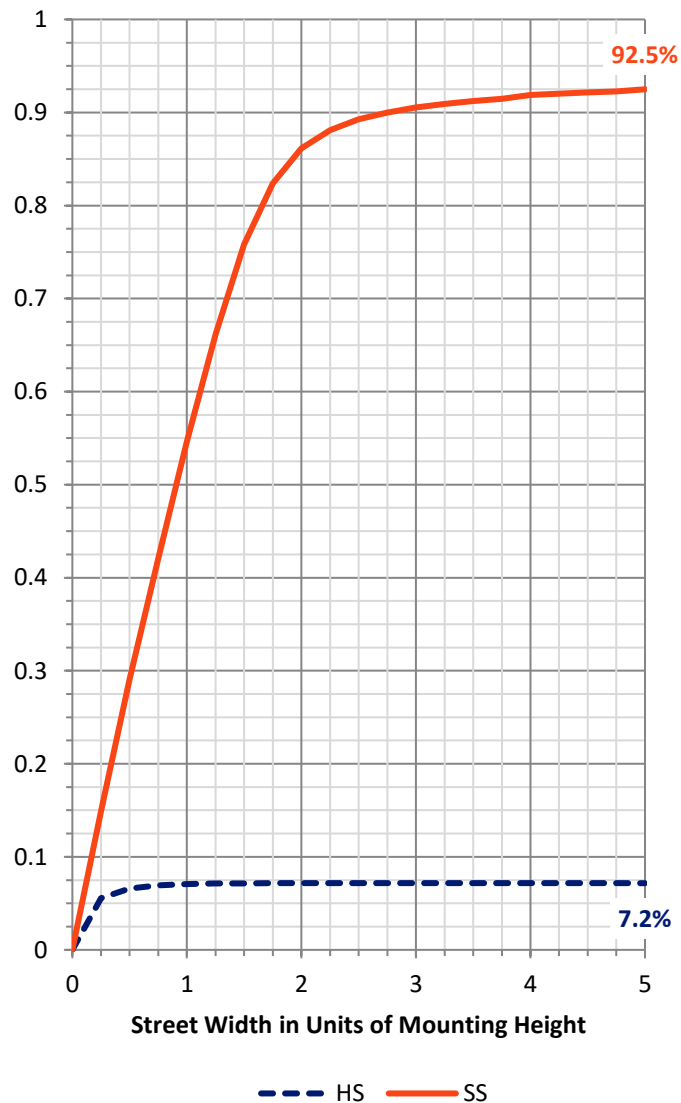
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.2	0.0	357.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4592.1	0.0	4592.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	4949.3	0.0	4949.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	2.2
10°-20°	229.9	4.6
20°-30°	311.6	6.3
30°-40°	432.2	8.7
40°-50°	689.2	13.9
50°-60°	1191.4	24.1
60°-70°	1361.0	27.5
70°-80°	567.4	11.5
80°-90°	60.2	1.2
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°	4949.3	100.0
0°-180°	4949.3	100.0

Coefficient of Utilization



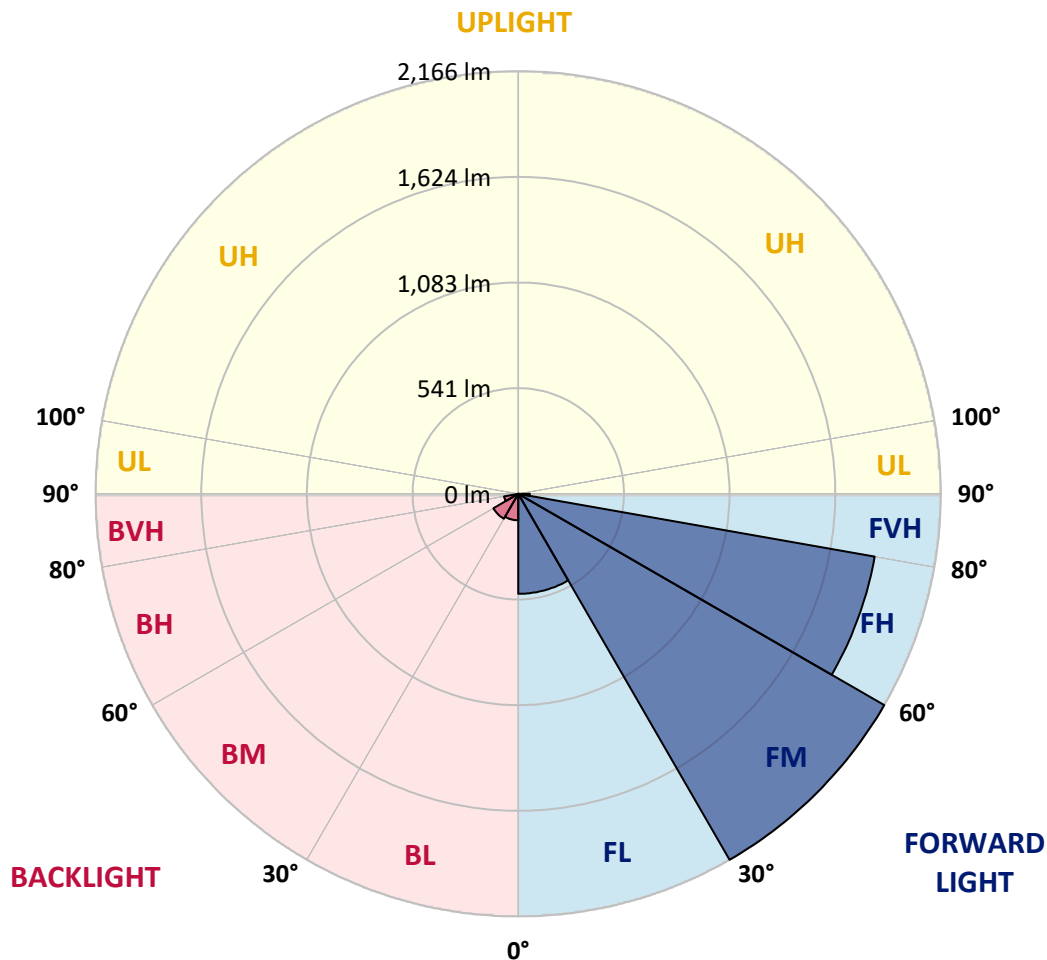
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.4	10.4			
FM (30°-60°)	2165.5	43.8			
FH (60°-80°)	1854.5	37.5			G2/5000
FVH (80°-90°)	59.7	1.2			G1/100
BL (0°-30°)	135.6	2.7	B1/500		
BM (30°-60°)	147.3	3.0	B0/220		
BH (60°-80°)	73.8	1.5	B0/110		G0/110
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°	58°	65°	75°	85°
0°	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0
2.5°	1522.7	1525.0	1516.4	1509.4	1491.6	1472.4	1446.9	1433.4	1410.3	1370.2	1325.9
5°	1558.4	1561.4	1560.1	1558.4	1551.5	1533.0	1500.5	1488.7	1454.6	1389.4	1309.4
7.5°	1479.1	1489.9	1491.3	1504.1	1516.4	1518.1	1505.8	1496.9	1465.4	1389.1	1279.9
10°	1373.9	1381.2	1391.7	1406.6	1436.0	1460.5	1472.4	1471.1	1452.9	1378.8	1245.5
12.5°	1267.7	1271.7	1287.9	1313.3	1349.4	1391.0	1422.8	1429.1	1429.4	1366.5	1216.8
15°	1176.4	1174.8	1187.3	1216.8	1267.4	1319.6	1376.5	1386.4	1402.3	1354.7	1189.9
17.5°	1098.3	1106.9	1108.9	1141.3	1188.0	1255.8	1328.2	1345.8	1377.5	1344.4	1167.8
20°	1050.1	1054.7	1059.0	1077.2	1119.2	1190.6	1282.9	1307.1	1354.3	1335.2	1143.0
22.5°	1035.9	1038.8	1035.2	1040.8	1070.6	1134.1	1233.7	1265.7	1332.1	1326.6	1122.8
25°	1046.8	1049.7	1041.2	1034.5	1044.8	1088.1	1186.0	1225.0	1314.3	1324.9	1107.6
27.5°	1073.2	1078.8	1067.0	1055.0	1049.1	1063.3	1148.6	1194.0	1302.1	1332.8	1100.7
30°	1114.6	1117.9	1108.9	1094.4	1080.9	1066.6	1129.1	1172.4	1298.8	1351.4	1100.0
32.5°	1159.6	1166.5	1161.5	1151.9	1134.4	1100.7	1134.8	1173.1	1306.7	1378.1	1108.3
35°	1215.1	1223.1	1227.7	1225.7	1203.2	1161.2	1170.4	1202.9	1327.9	1427.4	1130.8
37.5°	1269.7	1276.6	1302.7	1311.7	1291.9	1252.2	1239.9	1261.4	1374.5	1491.9	1171.4
40°	1332.1	1341.5	1378.1	1412.2	1402.6	1361.0	1338.5	1356.4	1445.9	1589.2	1248.5
42.5°	1392.0	1408.6	1464.5	1524.6	1533.6	1487.0	1472.1	1478.1	1551.8	1729.1	1356.0
45°	1477.0	1492.6	1564.7	1646.3	1688.4	1652.0	1636.8	1635.8	1697.0	1925.8	1530.3
47.5°	1599.8	1613.6	1698.7	1779.3	1854.1	1859.0	1830.3	1840.2	1879.6	2156.1	1744.0
50°	1750.2	1783.0	1838.8	1922.9	2022.8	2103.4	2112.3	2099.1	2132.9	2422.6	2000.6
52.5°	1968.9	1981.4	2032.7	2101.8	2218.9	2355.8	2461.9	2443.8	2433.2	2676.6	2259.9
55°	2131.9	2148.8	2228.5	2323.3	2495.0	2675.6	2905.8	2912.0	2778.5	2920.7	2513.6
57.5°	2082.7	2108.4	2229.2	2420.0	2797.3	3127.4	3298.7	3303.0	3098.0	3157.8	2799.9
60°	1829.6	1841.9	2014.8	2269.4	2823.2	3616.9	3856.0	3821.3	3423.0	3423.0	3053.0
62.5°	1297.5	1316.7	1456.9	1831.6	2549.6	3786.9	4523.4	4451.7	3870.9	3676.8	3203.8
65°	829.1	810.6	903.6	1156.2	1899.4	3535.8	5104.5	5108.8	4292.2	3778.3	3121.5
67°	600.6	593.3	620.2	790.5	1287.9	2972.3	5116.7	5343.3	4534.3	3714.1	2858.1
67.5°	549.3	555.0	574.5	713.1	1170.2	2704.7	5061.1	5329.4	4588.9	3675.4	2762.9
70°	416.4	406.8	428.0	504.3	701.5	1706.2	4353.8	4887.9	4521.1	3291.4	2207.6
72.5°	306.3	305.3	334.7	412.4	540.1	908.9	3268.3	3919.1	3693.6	2506.3	1390.1
75°	206.7	216.0	262.9	344.6	489.5	589.4	2228.1	2843.3	2564.1	1423.1	568.2
77.5°	117.7	118.4	169.3	276.9	439.5	474.2	1320.3	1811.4	1357.3	473.3	168.7
80°	51.0	55.9	84.0	201.1	364.5	420.0	757.1	995.5	549.0	100.2	54.6
82.5°	18.8	22.1	37.0	123.7	265.9	345.9	457.4	475.2	186.2	35.4	34.1
85°	0.0	0.7	13.5	57.9	138.6	154.5	305.6	281.8	82.3	16.9	22.1
87.5°	0.0	0.0	0.0	6.0	18.2	57.5	94.9	105.8	19.8	6.0	5.3
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°	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0
2.5°	1302.1	1280.6	1226.7	1172.8	1132.7	1099.4	1049.1	1021.6	1007.1	985.6	986.9
5°	1269.3	1225.7	1130.8	1032.6	953.2	875.8	783.1	745.8	714.3	696.5	684.6
7.5°	1220.7	1156.2	1015.7	884.7	762.7	627.4	525.9	458.1	412.4	395.5	379.4
10°	1167.5	1081.9	898.9	717.4	548.0	408.5	322.4	260.3	238.1	217.7	219.6
12.5°	1118.2	1014.0	791.8	566.2	384.0	259.6	202.4	176.9	169.6	167.4	167.4
15°	1077.8	949.2	676.7	425.6	263.2	186.5	162.1	155.1	152.5	151.8	151.8
17.5°	1034.9	887.7	572.8	314.5	191.5	156.1	147.8	143.2	142.2	141.5	141.5
20°	996.5	825.9	474.2	234.1	154.7	140.5	135.2	132.3	131.3	130.6	130.9
22.5°	960.1	770.9	381.6	176.9	136.2	128.0	122.7	119.8	117.7	116.1	116.4
25°	927.7	718.0	306.9	144.8	122.7	115.4	110.2	105.8	101.5	99.6	99.2
27.5°	904.9	671.7	239.1	124.0	110.4	102.5	95.9	90.7	85.0	82.0	81.3
30°	886.0	624.8	189.1	109.5	98.2	90.7	82.3	74.8	68.8	65.9	64.5
32.5°	873.8	580.1	149.2	97.6	88.0	78.7	69.5	61.8	55.3	52.2	51.6
35°	871.8	542.7	122.0	87.6	78.7	68.8	59.2	51.0	45.3	42.3	41.7
37.5°	886.0	513.9	102.2	79.7	71.1	60.2	49.6	42.0	37.0	34.7	34.4
40°	924.1	495.8	88.6	73.1	64.2	52.2	42.3	35.7	30.8	28.4	28.4
42.5°	996.5	496.4	79.7	66.8	57.2	44.7	36.1	29.8	25.5	23.5	22.8
45°	1109.6	518.9	72.1	60.6	50.6	38.7	30.8	24.5	20.2	18.5	18.5
47.5°	1261.1	563.6	65.5	54.2	44.7	33.1	26.2	19.8	16.2	14.5	14.5
50°	1459.2	635.4	59.9	48.9	39.7	28.4	21.2	16.2	12.5	11.3	10.9
52.5°	1666.2	723.9	53.2	44.3	34.1	24.1	17.2	12.5	9.6	8.6	8.2
55°	1894.8	810.6	46.9	39.7	27.8	20.2	13.5	9.9	7.0	6.0	6.0
57.5°	2125.3	895.6	39.4	33.1	21.9	14.9	10.6	7.3	4.6	3.6	3.6
60°	2320.4	923.1	33.4	26.8	16.6	10.6	7.6	4.6	2.6	1.7	1.7
62.5°	2347.2	830.5	28.1	20.5	11.9	7.3	4.0	2.6	1.0	0.7	0.7
65°	2201.7	674.7	23.5	15.6	7.9	3.6	1.7	1.0	0.3	0.0	0.0
67°	1972.8	547.1	19.2	11.6	5.6	2.4	1.0	0.3	0.0	0.0	0.0
67.5°	1914.3	521.6	18.5	10.9	5.0	2.0	0.7	0.3	0.0	0.0	0.0
70°	1502.2	390.6	13.2	6.6	2.9	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	933.7	220.9	9.6	4.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0
75°	352.9	77.4	6.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	109.8	29.4	4.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.0	11.3	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	4.6	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.2	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.7	0.3	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)