

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: P651726

Luminaire Tested: **GALN-SA2A-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6330.2 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

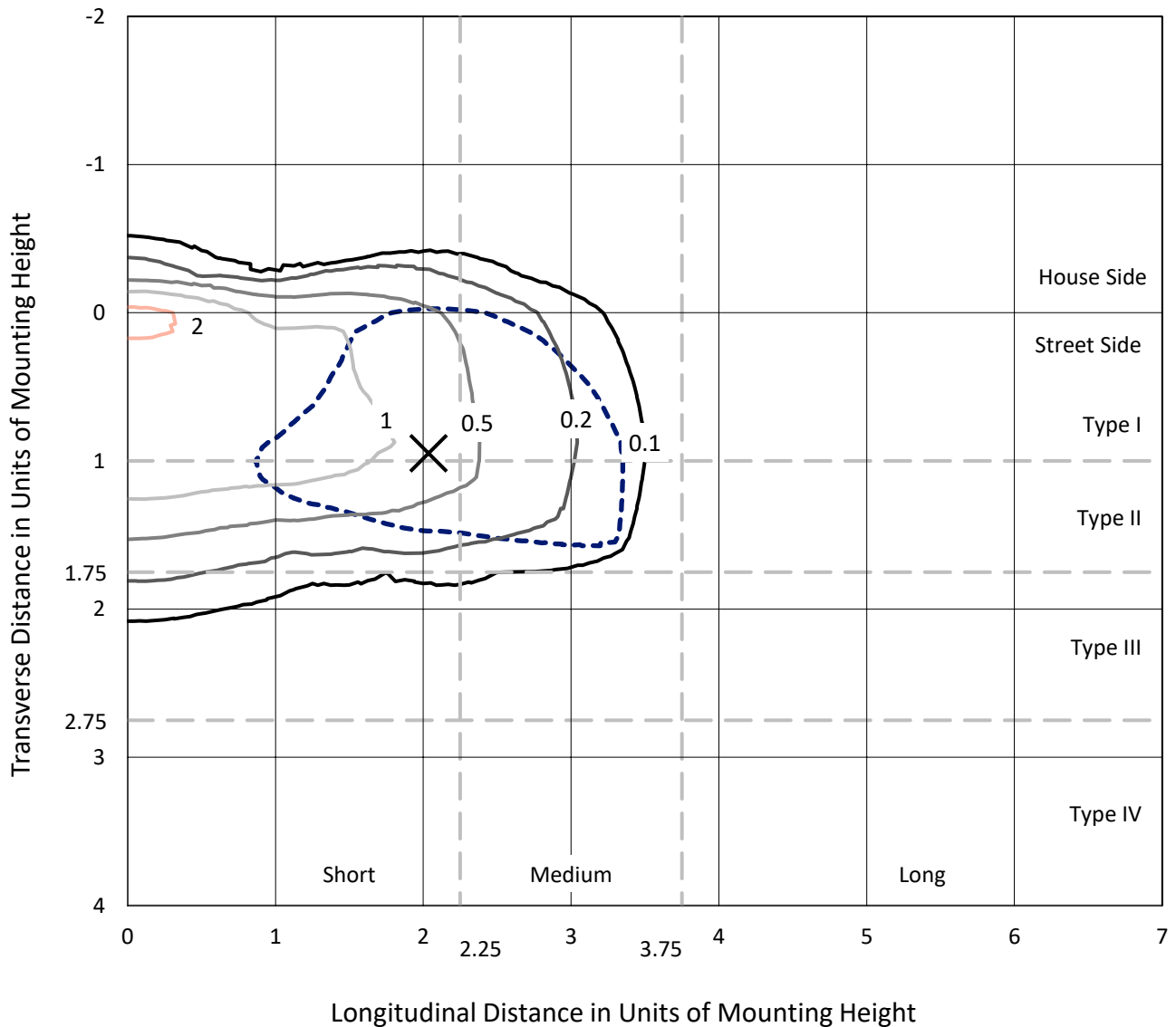
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

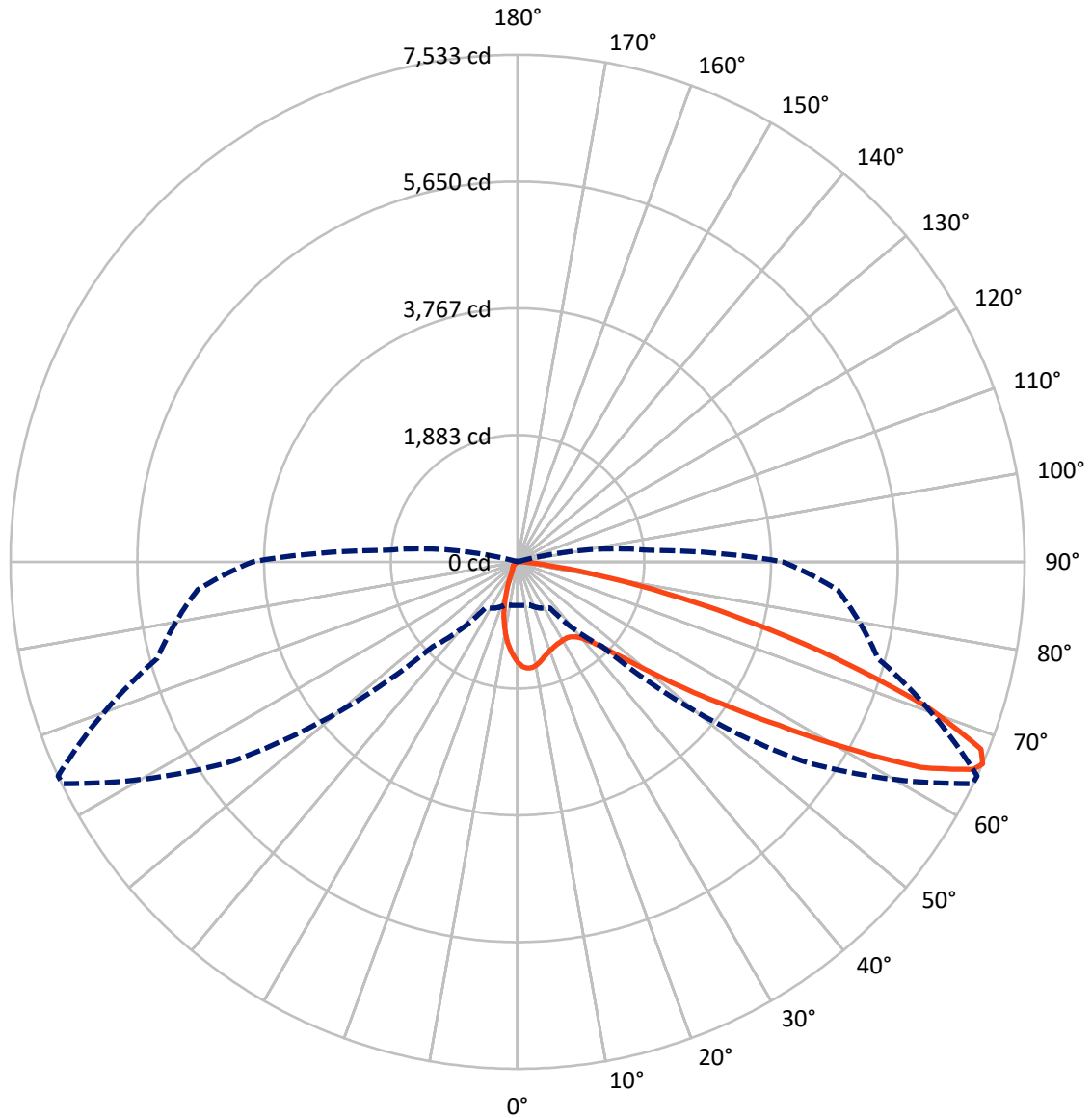
× Max cd
 - - - 1/2 Max cd



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 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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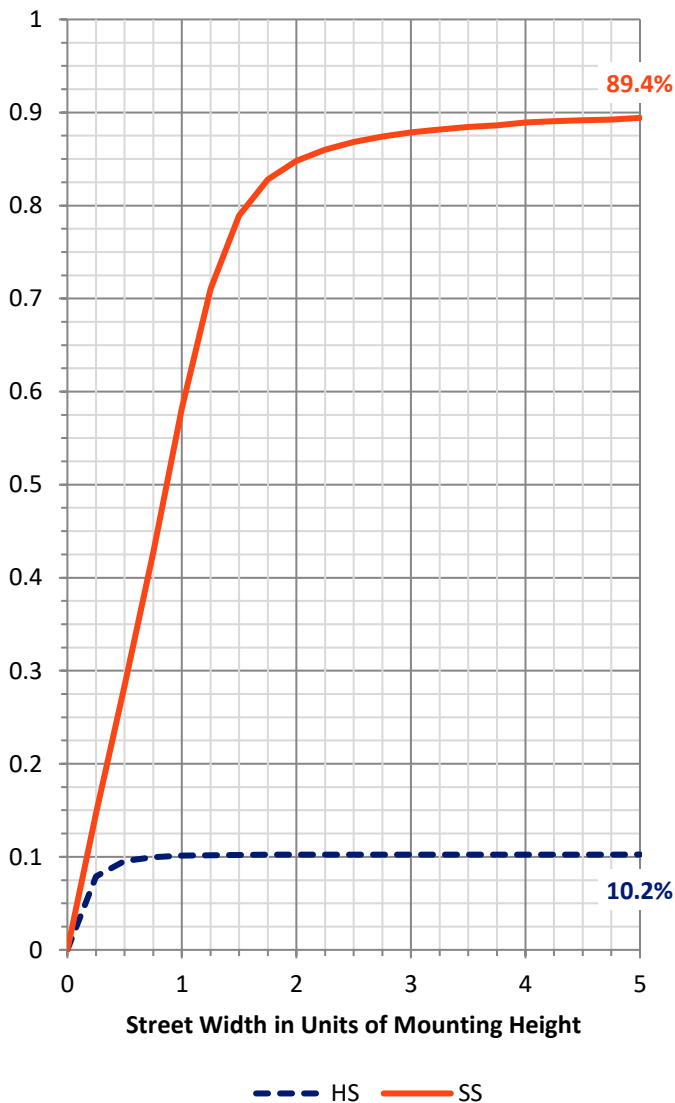
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.6	0.0	654.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5675.6	0.0	5675.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	6330.2	0.0	6330.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	1.9
10°-20°	267.5	4.2
20°-30°	383.2	6.1
30°-40°	559.7	8.8
40°-50°	938.5	14.8
50°-60°	1566.2	24.7
60°-70°	1662.5	26.3
70°-80°	752.9	11.9
80°-90°	77.0	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°	6330.2	100.0
0°-180°	6330.2	100.0

Coefficient of Utilization

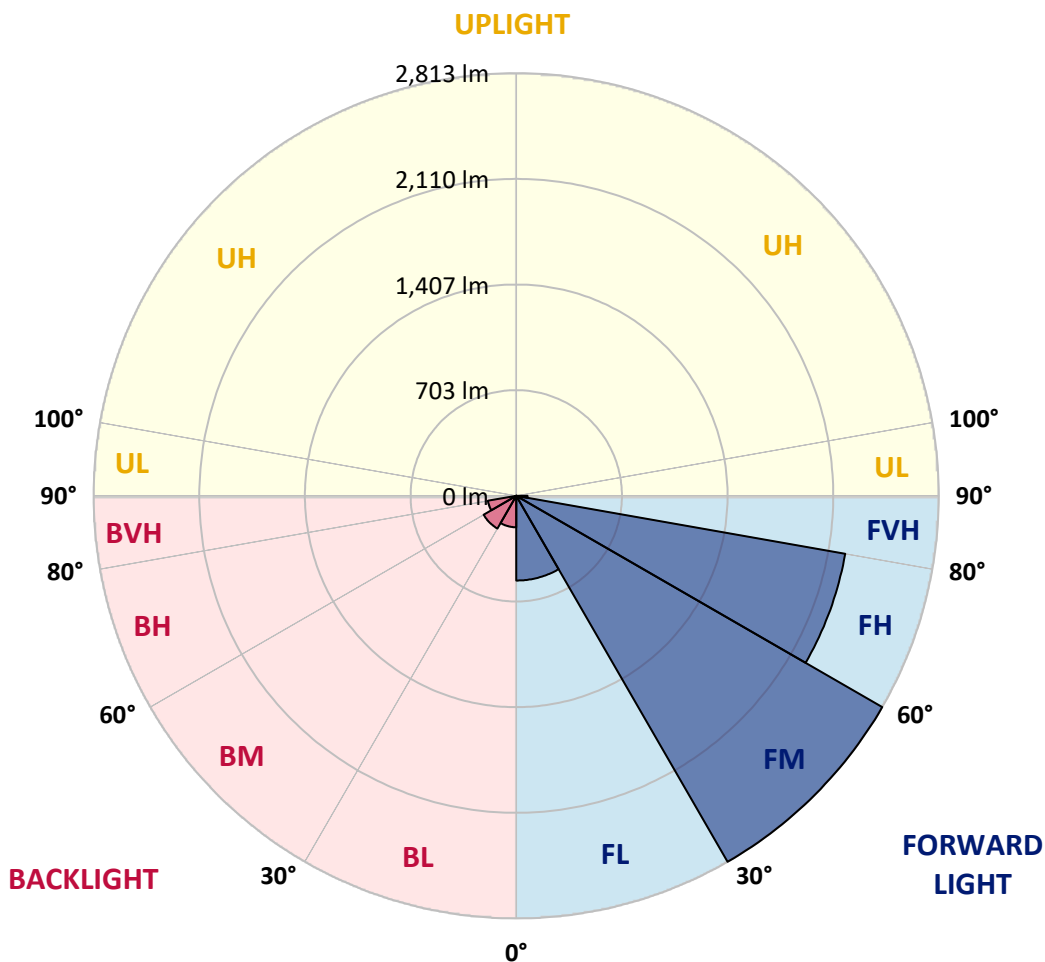


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.0	8.9			
FM (30°-60°)	2813.3	44.4			
FH (60°-80°)	2223.7	35.1			G2/5000
FVH (80°-90°)	74.6	1.2			G1/100
BL (0°-30°)	209.4	3.3	B1/500		
BM (30°-60°)	251.1	4.0	B1/1000		
BH (60°-80°)	191.7	3.0	B1/500		G1/500
BVH (80°-90°)	2.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1
2.5°	1581.9	1583.6	1585.8	1588.7	1590.9	1584.5	1575.5	1565.3	1563.1	1541.3	1514.8
5°	1497.3	1499.8	1518.7	1528.9	1552.0	1572.9	1586.2	1587.9	1587.1	1566.5	1524.2
7.5°	1376.7	1383.9	1402.4	1420.3	1463.5	1503.3	1550.3	1583.2	1585.4	1579.8	1527.2
10°	1278.8	1283.5	1292.9	1328.4	1364.3	1425.0	1490.8	1552.8	1558.0	1580.2	1524.6
12.5°	1202.3	1209.1	1220.6	1248.0	1291.2	1348.5	1423.3	1506.7	1517.3	1572.1	1517.3
15°	1148.8	1152.3	1163.8	1190.7	1232.7	1285.6	1361.3	1458.4	1467.8	1561.4	1516.1
17.5°	1123.6	1127.4	1135.6	1157.0	1191.6	1240.7	1314.7	1419.4	1431.5	1554.6	1520.8
20°	1130.5	1133.8	1134.3	1145.4	1168.9	1210.4	1280.5	1383.1	1398.5	1550.3	1528.5
22.5°	1169.3	1169.7	1164.6	1159.5	1167.6	1197.6	1259.6	1360.1	1375.9	1549.5	1537.4
25°	1227.5	1228.8	1220.2	1202.3	1186.1	1201.5	1254.9	1345.1	1359.1	1547.3	1543.1
27.5°	1307.8	1307.4	1304.9	1275.0	1228.8	1218.5	1258.7	1336.9	1348.9	1541.3	1545.2
30°	1420.3	1416.9	1411.4	1377.6	1307.0	1260.0	1275.0	1331.8	1342.9	1532.7	1539.6
32.5°	1531.0	1543.9	1543.1	1510.9	1422.9	1334.0	1308.8	1338.6	1346.8	1527.2	1531.5
35°	1660.1	1659.7	1692.7	1680.7	1577.6	1428.4	1366.5	1361.3	1367.7	1531.0	1527.6
37.5°	1779.9	1791.0	1842.3	1854.7	1760.6	1561.8	1448.1	1410.0	1412.2	1557.1	1537.0
40°	1929.1	1950.4	2027.0	2068.5	1985.5	1759.8	1568.7	1499.4	1499.8	1621.3	1572.5
42.5°	2121.5	2155.3	2226.7	2295.9	2251.4	1994.1	1749.5	1641.0	1640.1	1734.1	1653.7
45°	2355.4	2378.9	2460.1	2570.0	2541.8	2321.2	2012.9	1860.3	1849.2	1919.2	1797.8
47.5°	2557.1	2589.3	2671.8	2797.0	2925.3	2720.5	2327.6	2161.7	2154.4	2213.8	2045.0
50°	2645.3	2673.5	2760.2	2936.0	3246.8	3244.7	2796.2	2601.6	2589.3	2621.3	2427.2
52.5°	2548.7	2575.1	2662.8	2881.7	3398.1	3883.4	3475.1	3153.6	3138.6	3097.6	2883.8
55°	2217.7	2239.5	2369.0	2620.5	3340.0	4309.3	4410.6	3835.5	3777.4	3617.9	3400.8
57.5°	1765.8	1754.7	1835.1	2127.1	2998.8	4452.1	5370.9	4685.1	4581.2	4067.7	3838.1
60°	1223.7	1257.9	1290.3	1482.8	2254.9	4204.5	5968.2	5753.1	5616.3	4510.2	4257.1
62.5°	899.5	922.2	943.6	1032.5	1417.8	3357.1	6073.8	6850.2	6728.8	4980.1	4656.9
65°	711.4	713.2	721.7	809.4	934.2	2183.1	5566.2	7468.8	7437.6	5432.4	4818.9
66°	648.2	648.6	661.9	755.9	838.4	1777.8	5159.7	7515.8	7533.0	5541.0	4771.4
67.5°	566.5	564.8	584.0	679.4	763.6	1281.8	4432.0	7325.2	7426.5	5624.4	4600.9
70°	439.1	437.0	460.4	569.9	703.3	855.1	2945.9	6289.7	6453.0	5453.8	4070.7
72.5°	292.4	294.2	334.4	449.8	671.3	752.9	1772.2	4784.7	5015.6	4503.8	3202.4
75°	170.6	173.6	219.3	334.4	582.7	717.9	1003.1	3411.9	3559.4	3110.0	1994.9
77.5°	89.4	90.7	122.7	220.6	446.8	666.6	668.3	2179.6	2248.9	1511.4	789.7
80°	47.4	46.2	65.9	133.0	307.4	585.3	542.1	1153.9	1199.7	448.9	199.7
82.5°	18.0	19.7	35.1	87.2	181.7	420.2	466.9	510.1	494.3	98.7	83.8
85°	3.4	4.3	15.0	51.7	91.5	175.7	344.1	250.1	231.7	37.2	48.3
87.5°	0.4	0.8	4.3	12.4	13.3	59.5	101.8	69.3	59.9	13.7	20.1
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°	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1
2.5°	1501.9	1490.4	1452.0	1413.9	1375.0	1340.0	1316.0	1277.1	1267.2	1253.2	1245.0
5°	1499.0	1472.1	1398.1	1317.3	1242.0	1160.8	1098.8	1039.0	1006.8	990.6	984.6
7.5°	1490.4	1447.7	1332.2	1205.7	1085.1	963.7	858.1	777.7	726.0	690.5	666.6
10°	1473.3	1414.3	1255.7	1081.7	899.5	739.2	605.4	503.7	425.0	400.1	401.1
12.5°	1455.8	1377.1	1170.2	944.0	718.3	516.0	374.1	293.8	256.1	243.7	241.1
15°	1439.5	1341.6	1086.4	810.6	534.9	334.4	241.1	212.9	202.7	200.5	200.1
17.5°	1431.0	1308.8	997.0	658.0	373.2	227.1	193.3	185.5	182.6	180.4	179.6
20°	1423.7	1280.1	911.6	515.2	255.2	185.9	173.2	165.9	160.8	158.6	157.4
22.5°	1418.6	1250.6	823.0	398.9	195.4	165.0	153.5	144.1	136.8	134.2	132.5
25°	1410.9	1218.1	733.7	291.6	164.6	146.7	133.4	122.3	112.9	108.2	107.3
27.5°	1399.8	1181.4	635.8	215.9	147.1	130.4	114.1	100.5	91.1	86.0	86.4
30°	1381.8	1142.8	537.8	171.5	133.0	113.7	96.2	82.9	74.0	70.1	69.7
32.5°	1360.5	1096.2	448.1	147.1	120.2	98.7	80.4	68.8	62.0	59.0	58.5
35°	1340.4	1049.2	356.6	132.1	106.9	85.1	67.5	57.7	52.6	50.0	50.5
37.5°	1329.3	1007.3	277.9	120.2	96.2	73.1	58.1	49.6	44.9	42.7	42.3
40°	1336.5	973.1	221.0	109.4	84.3	62.8	50.0	42.7	38.0	35.1	35.1
42.5°	1370.7	958.2	178.3	99.2	73.1	54.3	43.6	36.8	31.6	28.7	29.1
45°	1475.0	974.0	149.2	89.8	62.8	47.0	37.6	30.4	25.7	23.5	23.1
47.5°	1648.2	1033.4	129.1	80.0	53.9	40.2	31.6	25.2	20.5	18.8	18.4
50°	1950.9	1156.1	114.1	70.1	45.8	34.2	26.1	20.1	16.2	14.5	14.5
52.5°	2367.3	1423.7	103.4	59.0	38.5	29.1	21.4	16.2	12.9	11.5	11.1
55°	2802.5	1705.9	97.9	49.6	32.0	24.0	17.1	12.9	9.8	8.6	8.2
57.5°	3221.2	1927.4	91.5	40.2	25.7	18.4	13.3	9.8	6.8	6.0	5.6
60°	3622.6	2106.5	77.8	32.0	20.1	13.3	9.8	6.8	4.7	3.9	3.9
62.5°	3981.8	2210.8	61.1	25.7	15.4	9.4	6.4	5.1	3.4	2.6	2.6
65°	4023.7	2075.3	46.2	19.7	11.1	6.0	3.9	3.9	2.6	1.7	1.7
66°	3939.4	1960.3	40.6	18.0	9.8	5.1	3.4	3.0	2.1	1.3	1.3
67.5°	3751.3	1764.1	35.1	15.4	8.2	3.9	2.6	2.6	1.7	0.8	0.8
70°	3241.2	1440.8	27.8	11.5	6.0	3.0	1.7	1.7	1.3	0.8	0.8
72.5°	2470.4	1075.7	22.6	8.6	4.3	2.1	1.3	1.3	1.3	0.8	0.8
75°	1490.0	579.4	17.5	6.4	3.9	1.7	0.8	1.3	1.7	1.3	0.8
77.5°	549.0	197.1	13.7	5.1	3.0	1.7	0.8	0.8	1.7	1.3	1.3
80°	134.6	51.3	9.8	4.3	3.0	1.7	0.8	0.8	1.7	1.7	1.7
82.5°	62.4	21.8	6.8	3.9	3.0	1.7	0.8	0.8	1.3	1.7	1.7
85°	35.9	10.3	5.6	4.3	3.0	1.7	0.8	0.8	1.3	1.7	1.7
87.5°	14.5	5.1	5.1	4.3	3.4	2.1	0.8	0.8	0.8	1.3	1.3
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)