

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: P651180

Luminaire Tested: **GALN-SA1D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651180
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-SA1D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA 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: 5445.5 lumens
Efficiency: N/A
Efficacy: 83.8 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

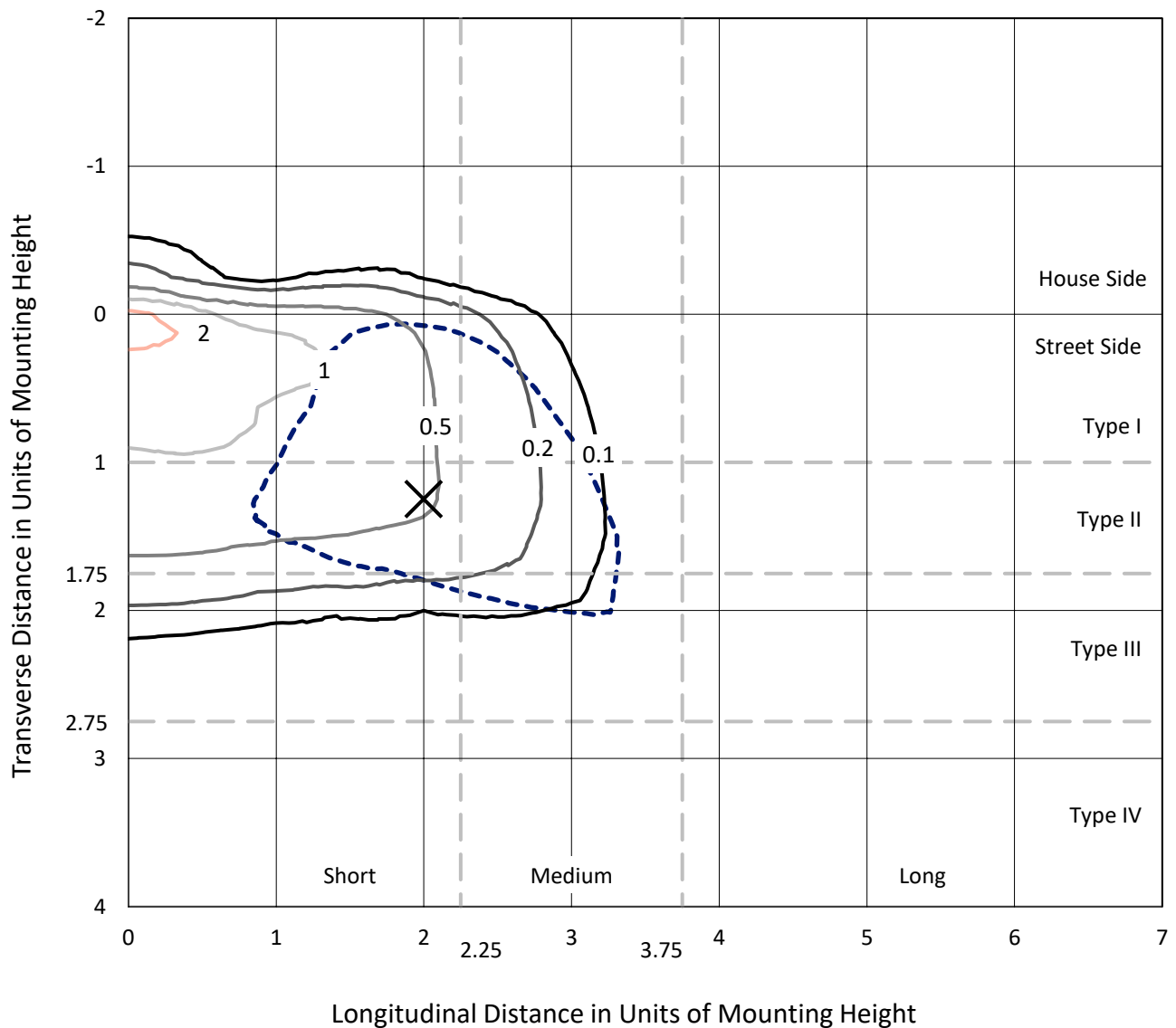
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

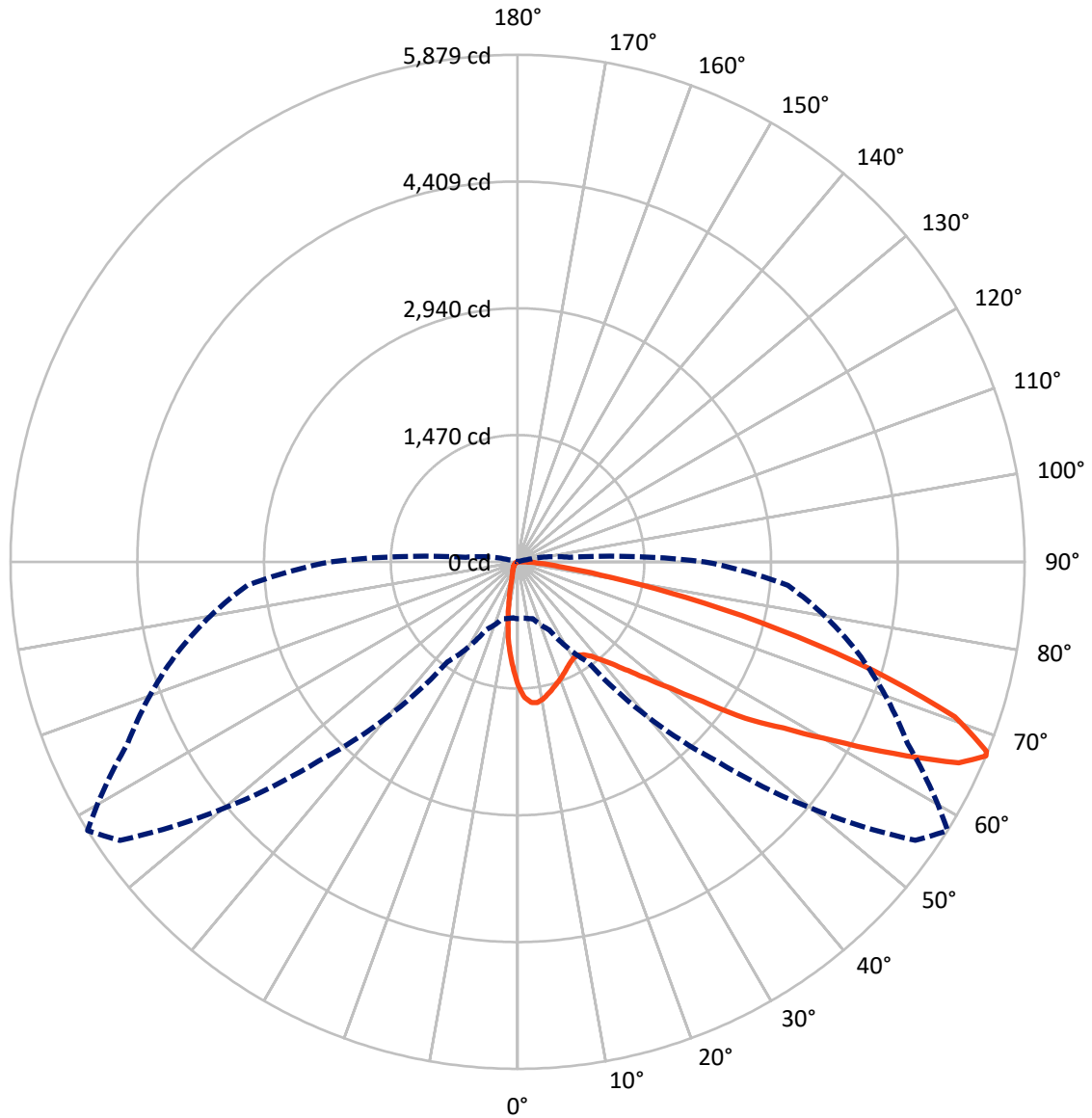
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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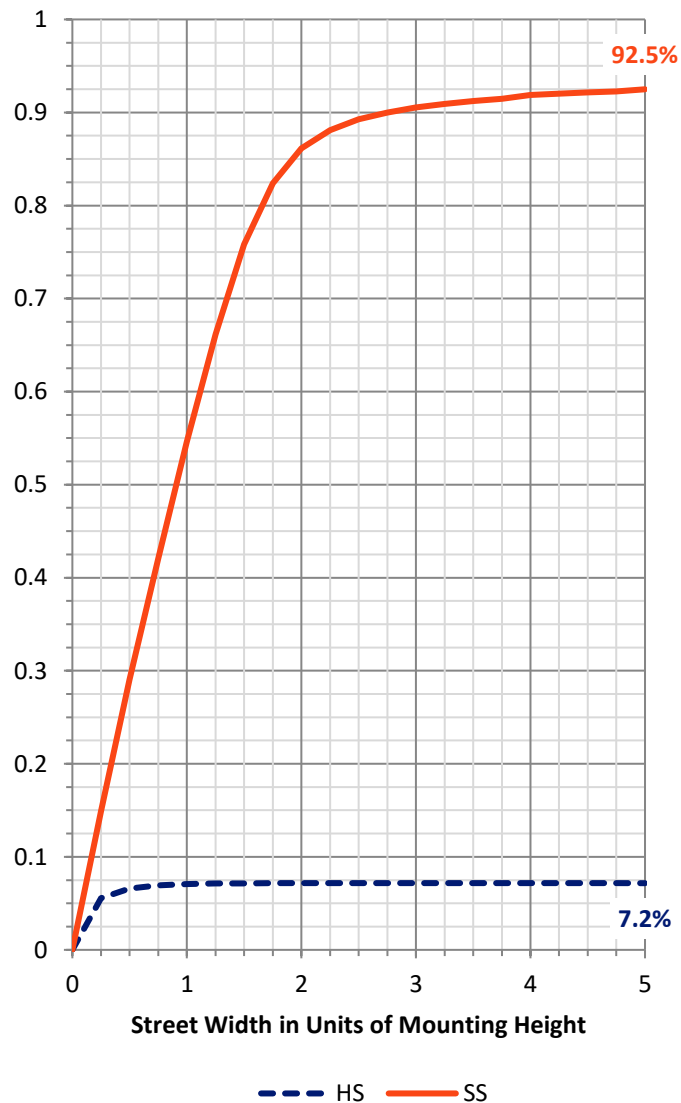
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	393.0	0.0	393.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5052.5	0.0	5052.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	5445.5	0.0	5445.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.2
10°-20°	253.0	4.6
20°-30°	342.8	6.3
30°-40°	475.5	8.7
40°-50°	758.3	13.9
50°-60°	1310.8	24.1
60°-70°	1497.4	27.5
70°-80°	624.3	11.5
80°-90°	66.2	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°	5445.5	100.0
0°-180°	5445.5	100.0

Coefficient of Utilization



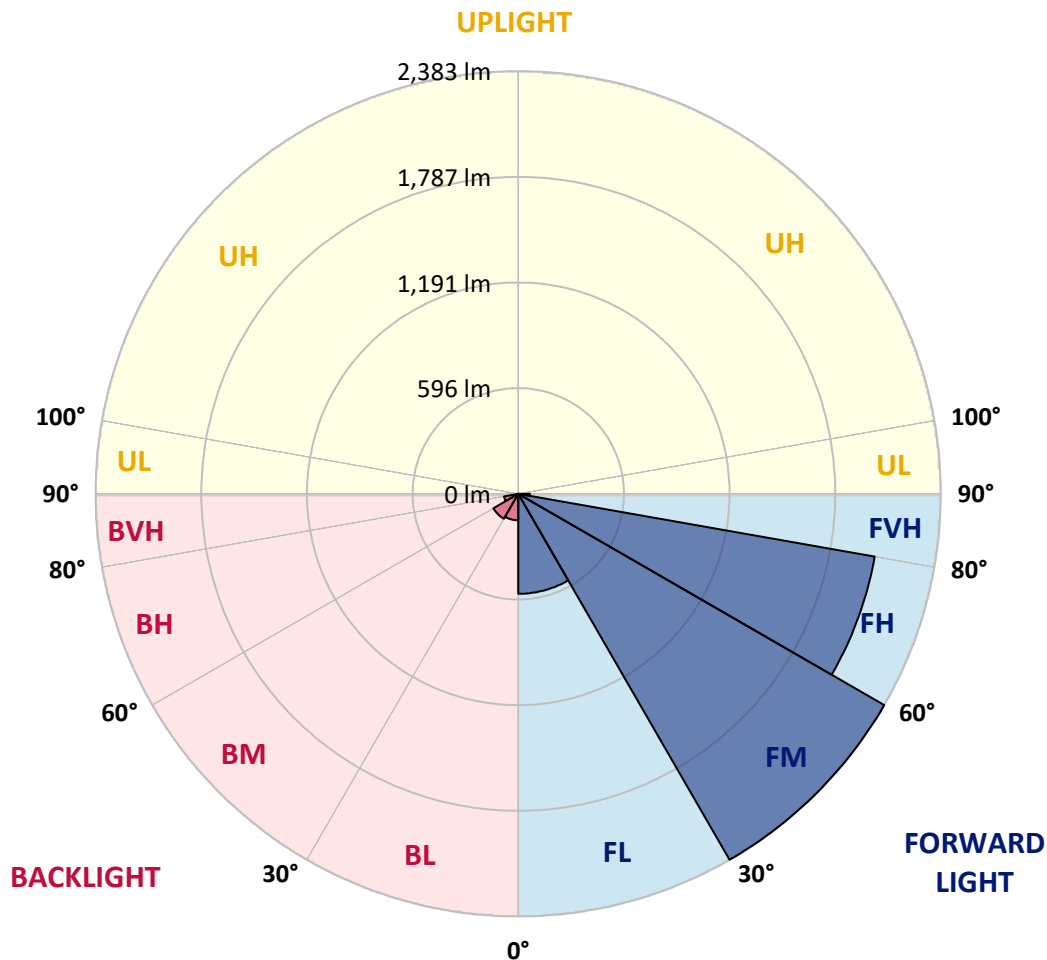
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.7	10.4			
FM (30°-60°)	2382.6	43.8			
FH (60°-80°)	2040.4	37.5			G2/5000
FVH (80°-90°)	65.7	1.2			G1/100
BL (0°-30°)	149.2	2.7	B1/500		
BM (30°-60°)	162.0	3.0	B0/220		
BH (60°-80°)	81.2	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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°	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6
2.5°	1675.4	1677.9	1668.5	1660.8	1641.1	1620.0	1592.0	1577.1	1551.6	1507.6	1458.8
5°	1714.6	1717.9	1716.5	1714.6	1707.0	1686.6	1651.0	1637.8	1600.4	1528.7	1440.6
7.5°	1627.3	1639.3	1640.8	1655.0	1668.5	1670.2	1656.8	1646.9	1612.4	1528.3	1408.3
10°	1511.6	1519.6	1531.2	1547.6	1580.0	1606.9	1620.0	1618.6	1598.6	1517.1	1370.4
12.5°	1394.8	1399.2	1417.0	1445.0	1484.7	1530.5	1565.4	1572.3	1572.8	1503.6	1338.7
15°	1294.4	1292.5	1306.3	1338.7	1394.5	1451.9	1514.5	1525.4	1542.9	1490.5	1309.3
17.5°	1208.4	1217.9	1220.1	1255.8	1307.1	1381.7	1461.4	1480.7	1515.6	1479.2	1284.9
20°	1155.4	1160.4	1165.2	1185.2	1231.4	1310.0	1411.5	1438.1	1490.1	1469.1	1257.6
22.5°	1139.7	1143.0	1139.0	1145.2	1177.9	1247.8	1357.3	1392.6	1465.8	1459.6	1235.4
25°	1151.7	1154.9	1145.5	1138.2	1149.6	1197.2	1304.9	1347.9	1446.1	1457.7	1218.7
27.5°	1180.8	1187.0	1173.9	1160.8	1154.3	1169.9	1263.8	1313.6	1432.6	1466.5	1211.0
30°	1226.3	1230.0	1220.1	1204.1	1189.2	1173.5	1242.3	1290.0	1429.0	1486.9	1210.3
32.5°	1275.8	1283.5	1278.0	1267.4	1248.1	1211.0	1248.5	1290.7	1437.7	1516.3	1219.4
35°	1336.9	1345.7	1350.7	1348.5	1323.8	1277.6	1287.8	1323.5	1461.0	1570.6	1244.2
37.5°	1397.0	1404.6	1433.3	1443.2	1421.4	1377.6	1364.2	1387.9	1512.3	1641.5	1288.9
40°	1465.8	1476.0	1516.3	1553.8	1543.2	1497.4	1472.7	1492.3	1590.9	1748.5	1373.7
42.5°	1531.6	1549.8	1611.3	1677.5	1687.4	1636.1	1619.7	1626.2	1707.4	1902.4	1491.9
45°	1625.1	1642.2	1721.5	1811.4	1857.7	1817.7	1800.9	1799.8	1867.1	2118.9	1683.7
47.5°	1760.1	1775.4	1869.0	1957.7	2039.9	2045.4	2013.8	2024.7	2068.0	2372.2	1918.8
50°	1925.7	1961.7	2023.2	2115.6	2225.5	2314.3	2324.2	2309.6	2346.7	2665.5	2201.1
52.5°	2166.2	2180.0	2236.5	2312.5	2441.3	2592.0	2708.8	2688.8	2677.2	2944.9	2486.4
55°	2345.6	2364.2	2451.9	2556.3	2745.2	2943.8	3197.1	3204.0	3057.0	3213.5	2765.5
57.5°	2291.4	2319.8	2452.6	2662.6	3077.8	3441.0	3629.4	3634.1	3408.6	3474.4	3080.7
60°	2013.0	2026.5	2216.8	2497.0	3106.1	3979.4	4242.6	4204.3	3766.3	3766.3	3359.0
62.5°	1427.5	1448.6	1602.9	2015.2	2805.2	4166.5	4976.9	4897.9	4259.0	4045.4	3525.0
65°	912.2	891.9	994.1	1272.2	2089.8	3890.3	5616.3	5621.0	4722.6	4157.1	3434.4
67°	660.9	652.8	682.3	869.7	1417.0	3270.2	5629.7	5879.0	4988.9	4086.5	3144.8
67.5°	604.4	610.6	632.1	784.6	1287.4	2975.9	5568.6	5863.7	5048.9	4043.9	3040.0
70°	458.2	447.6	470.9	554.9	771.8	1877.3	4790.3	5377.9	4974.3	3621.4	2429.0
72.5°	337.0	335.9	368.3	453.8	594.3	999.9	3595.9	4312.1	4063.9	2757.6	1529.4
75°	227.4	237.6	289.3	379.2	538.6	648.4	2451.5	3128.4	2821.2	1565.8	625.2
77.5°	129.5	130.3	186.3	304.6	483.6	521.8	1452.7	1993.0	1493.4	520.7	185.6
80°	56.0	61.5	92.4	221.3	401.0	462.1	832.9	1095.3	604.1	110.3	60.0
82.5°	20.8	24.4	40.8	136.1	292.6	380.6	503.3	522.9	204.9	38.9	37.5
85°	0.0	0.8	14.9	63.7	152.5	170.0	336.2	310.0	90.6	18.6	24.4
87.5°	0.0	0.0	0.0	6.6	20.0	63.3	104.5	116.5	21.9	6.6	5.8
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°	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6	1443.6
2.5°	1432.6	1409.0	1349.6	1290.3	1246.3	1209.5	1154.3	1124.1	1108.0	1084.4	1085.8
5°	1396.6	1348.5	1244.2	1136.0	1048.7	963.6	861.7	820.6	786.0	766.3	753.3
7.5°	1343.1	1272.2	1117.5	973.4	839.1	690.3	578.6	504.0	453.8	435.2	417.4
10°	1284.5	1190.3	989.0	789.3	603.0	449.4	354.8	286.4	262.0	239.4	241.6
12.5°	1230.3	1115.7	871.1	623.0	422.4	285.7	222.7	194.7	186.7	184.1	184.1
15°	1185.9	1044.4	744.5	468.4	289.6	205.2	178.3	170.6	167.8	167.0	167.0
17.5°	1138.6	976.7	630.2	346.1	210.7	171.7	162.6	157.6	156.5	155.8	155.8
20°	1096.4	908.6	521.8	257.6	170.3	154.7	148.9	145.6	144.5	143.7	144.1
22.5°	1056.4	848.2	419.9	194.7	150.0	140.8	135.0	131.7	129.5	127.7	128.1
25°	1020.7	790.0	337.7	159.4	135.0	127.0	121.2	116.5	111.7	109.5	109.2
27.5°	995.6	739.1	263.1	136.5	121.5	112.8	105.5	99.7	93.5	90.2	89.5
30°	974.9	687.3	208.1	120.4	108.1	99.7	90.6	82.2	75.7	72.4	71.0
32.5°	961.4	638.2	164.1	107.3	96.8	86.6	76.4	68.0	60.8	57.5	56.8
35°	959.2	597.1	134.3	96.5	86.6	75.7	65.2	56.0	49.9	46.6	45.8
37.5°	974.9	565.5	112.4	87.7	78.2	66.2	54.6	46.3	40.8	38.2	37.8
40°	1016.7	545.5	97.6	80.4	70.6	57.5	46.6	39.3	33.8	31.3	31.3
42.5°	1096.4	546.2	87.7	73.5	63.0	49.1	39.7	32.7	28.0	25.8	25.1
45°	1220.9	571.0	79.3	66.6	55.7	42.6	33.8	26.9	22.2	20.4	20.4
47.5°	1387.5	620.1	72.1	59.7	49.1	36.4	28.8	21.9	17.8	16.0	16.0
50°	1605.5	699.0	65.9	53.8	43.6	31.3	23.3	17.8	13.8	12.4	12.0
52.5°	1833.3	796.5	58.6	48.8	37.5	26.6	18.9	13.8	10.5	9.4	9.1
55°	2084.8	891.9	51.6	43.6	30.5	22.2	14.9	10.9	7.7	6.6	6.6
57.5°	2338.3	985.4	43.3	36.4	24.1	16.4	11.6	8.0	5.1	4.0	4.0
60°	2553.0	1015.6	36.8	29.4	18.2	11.6	8.4	5.1	2.9	1.9	1.9
62.5°	2582.5	913.7	30.9	22.5	13.1	8.0	4.4	2.9	1.1	0.8	0.8
65°	2422.4	742.4	25.8	17.1	8.7	4.0	1.9	1.1	0.3	0.0	0.0
67°	2170.6	601.9	21.1	12.7	6.2	2.5	1.1	0.3	0.0	0.0	0.0
67.5°	2106.2	573.8	20.4	12.0	5.5	2.2	0.8	0.3	0.0	0.0	0.0
70°	1652.8	429.8	14.5	7.3	3.3	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1027.3	243.0	10.5	4.4	2.2	0.8	0.0	0.0	0.0	0.0	0.0
75°	388.3	85.1	7.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	120.9	32.4	4.4	2.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.8	12.4	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	5.1	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.6	2.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.8	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)