

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: P526801

Luminaire Tested: **GALN-SA1D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4256 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

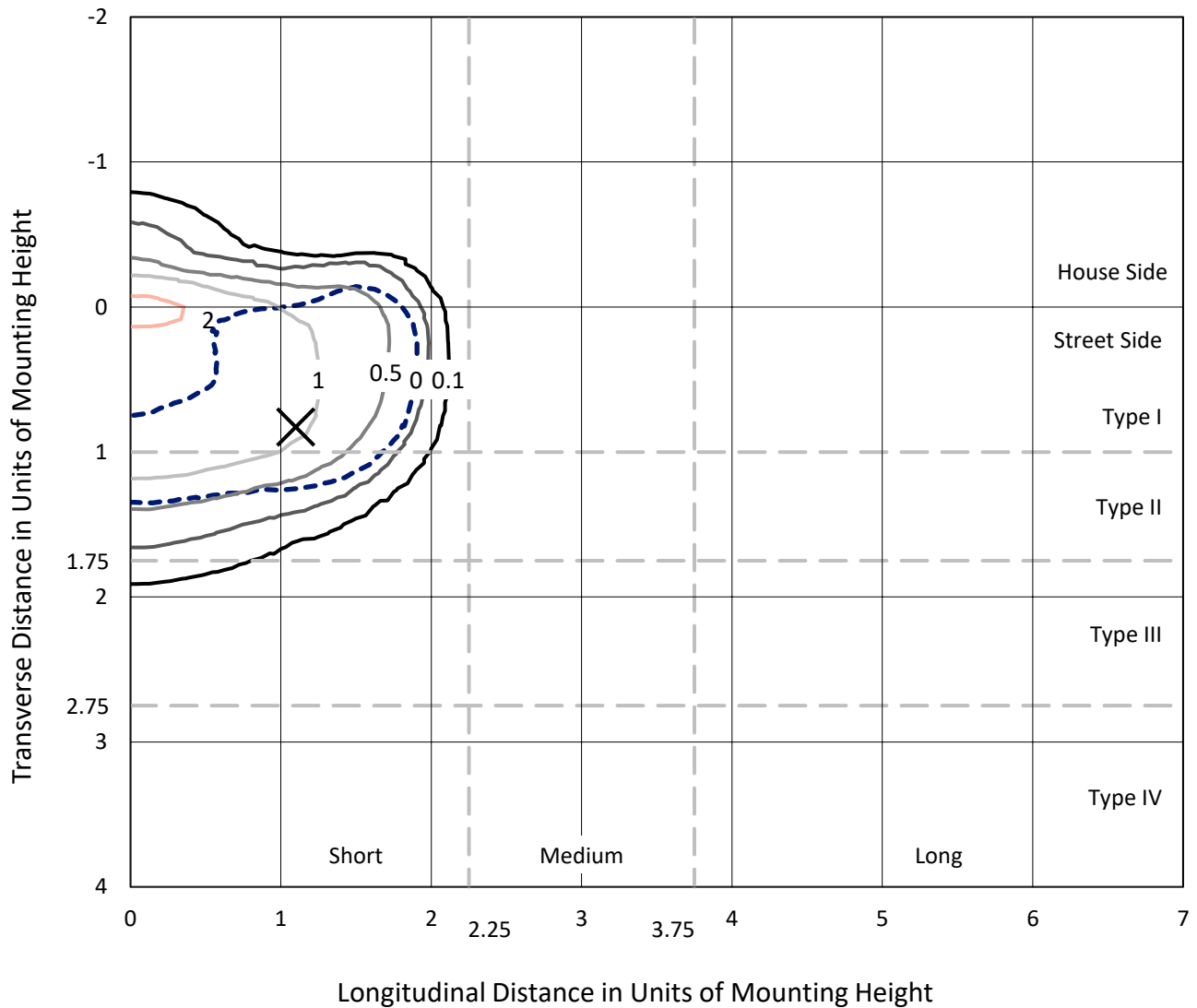
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

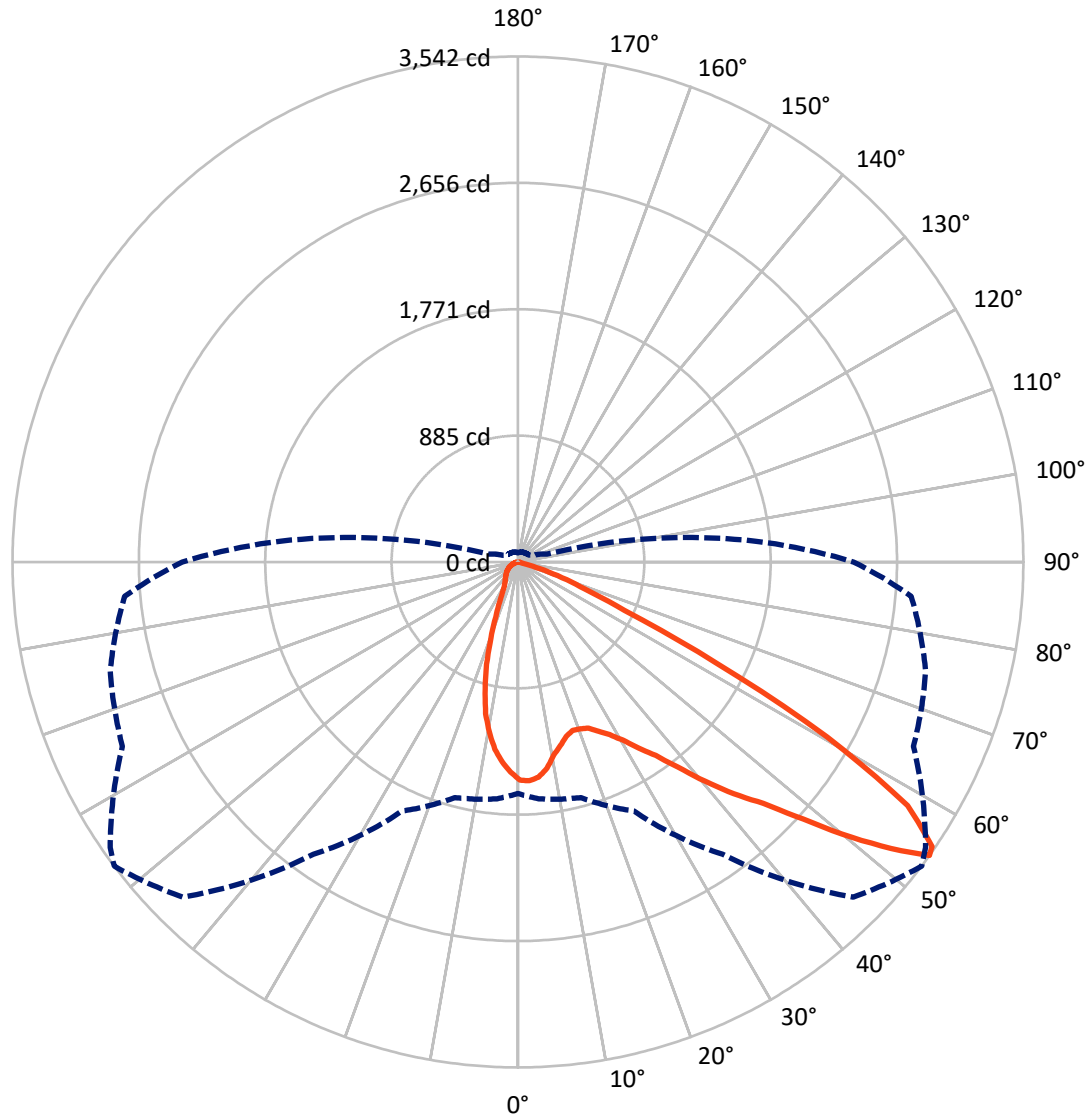
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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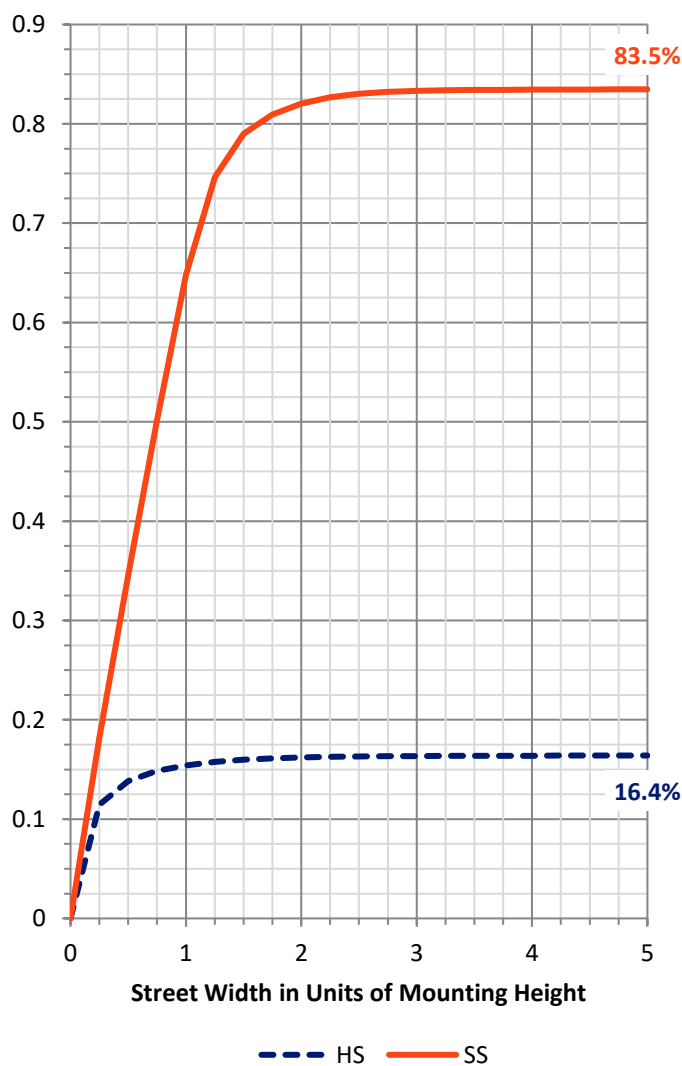
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	704.2	0.0	704.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3551.8	0.0	3551.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	4256.0	0.0	4256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.1
10°-20°	300.7	7.1
20°-30°	427.4	10.0
30°-40°	659.5	15.5
40°-50°	1034.1	24.3
50°-60°	1201.2	28.2
60°-70°	453.9	10.7
70°-80°	43.2	1.0
80°-90°	4.9	0.1
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°	4256.0	100.0
0°-180°	4256.0	100.0

Coefficient of Utilization



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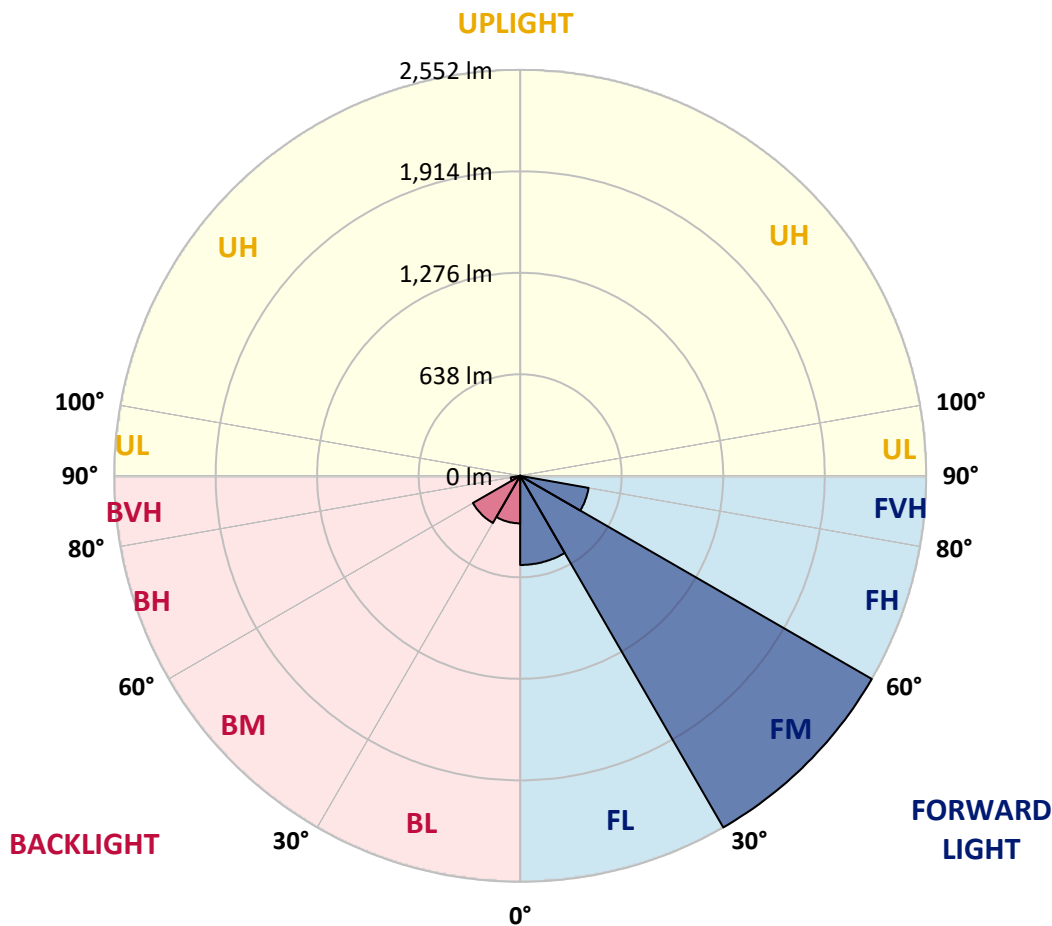
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.4	13.2			
FM (30°-60°)	2552.2	60.0			
FH (60°-80°)	436.7	10.3			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	298.8	7.0	B1/500		
BM (30°-60°)	342.7	8.1	B1/1000		
BH (60°-80°)	60.3	1.4	B0/110		G0/110
BVH (80°-90°)	2.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7
2.5°	1520.8	1507.3	1520.8	1522.3	1531.9	1540.6	1535.0	1547.7	1540.6	1532.6	1530.3
5°	1397.9	1416.1	1416.9	1445.4	1439.1	1491.4	1514.4	1508.1	1546.9	1544.5	1539.0
7.5°	1287.6	1280.5	1290.0	1323.3	1365.3	1425.6	1458.9	1458.1	1513.6	1553.3	1549.3
10°	1185.4	1184.6	1204.4	1230.6	1266.2	1329.7	1375.7	1398.7	1485.1	1545.3	1554.1
12.5°	1116.4	1113.2	1134.6	1156.0	1212.3	1261.5	1320.2	1331.3	1430.4	1517.6	1531.9
15°	1071.2	1078.3	1079.9	1121.1	1156.8	1221.8	1267.8	1290.8	1405.0	1495.4	1550.1
17.5°	1063.3	1072.8	1073.6	1107.7	1145.7	1200.4	1240.9	1271.8	1383.6	1506.5	1550.9
20°	1079.1	1073.6	1078.3	1099.7	1137.0	1189.3	1248.0	1258.3	1376.4	1512.0	1559.6
22.5°	1124.3	1122.7	1110.8	1128.3	1154.4	1209.2	1264.7	1280.5	1397.1	1540.6	1566.7
25°	1174.3	1183.0	1171.9	1169.5	1187.7	1241.7	1315.4	1336.0	1466.0	1592.1	1588.9
27.5°	1267.8	1259.1	1259.1	1248.0	1243.2	1269.4	1370.1	1404.2	1543.0	1658.7	1614.3
30°	1357.4	1366.9	1359.8	1363.8	1332.0	1329.7	1447.8	1489.8	1679.3	1760.2	1668.2
32.5°	1499.3	1486.7	1498.6	1488.2	1446.2	1403.4	1553.3	1596.9	1844.3	1876.8	1749.1
35°	1617.5	1611.9	1662.7	1661.1	1592.9	1550.9	1665.1	1730.1	1959.2	2016.3	1844.3
37.5°	1785.6	1775.3	1833.2	1860.9	1799.9	1737.2	1825.2	1900.5	2066.3	2128.1	1941.8
40°	1958.4	1984.6	2062.3	2108.3	2043.3	1960.0	2021.1	2044.1	2137.6	2201.1	2008.4
42.5°	2177.3	2215.3	2294.6	2334.3	2328.7	2238.3	2220.1	2219.3	2189.2	2180.4	2057.5
45°	2387.4	2373.1	2495.2	2581.6	2651.4	2625.2	2412.0	2388.2	2270.8	2211.4	2070.2
47.5°	2479.4	2474.6	2557.8	2711.7	2949.5	2982.0	2691.1	2599.1	2408.8	2341.4	2139.2
50°	2360.4	2385.0	2467.5	2637.9	3002.7	3250.8	3033.6	2909.9	2569.7	2500.0	2302.5
52.5°	1971.9	1988.6	2067.1	2283.5	2821.9	3409.4	3361.8	3290.5	2865.5	2749.7	2587.2
54°	1621.5	1665.9	1708.7	1925.9	2500.0	3321.4	3541.8	3487.1	3058.2	2957.5	2766.4
55°	1412.1	1438.3	1469.2	1685.7	2277.2	3172.3	3521.2	3526.0	3187.4	3022.5	2886.9
57.5°	1031.5	1049.8	1018.1	1114.0	1563.6	2576.1	3220.7	3349.1	3361.8	3120.0	2960.6
60°	788.1	796.1	760.4	775.4	972.1	1768.1	2491.2	2645.9	3032.8	2726.7	2507.9
62.5°	611.3	612.9	612.1	638.3	670.0	1040.3	1558.0	1695.2	2090.8	1936.2	1703.1
65°	450.4	443.2	455.9	535.2	571.7	654.1	820.6	920.5	1136.2	959.4	685.8
67.5°	291.8	294.2	306.8	398.0	490.0	501.9	505.1	497.1	497.9	274.3	172.1
70°	175.2	179.2	175.2	225.2	350.5	360.0	329.0	321.1	250.6	65.0	64.2
72.5°	103.9	98.3	88.0	96.7	145.9	174.4	157.0	156.2	98.3	38.1	38.1
75°	43.6	39.6	32.5	29.3	38.9	37.3	37.3	33.3	26.2	25.4	23.8
77.5°	8.7	8.7	6.3	7.1	9.5	11.1	13.5	13.5	15.9	15.9	15.1
80°	0.0	0.8	2.4	4.8	7.1	10.3	11.9	11.9	13.5	13.5	11.1
82.5°	0.0	0.8	2.4	4.8	6.3	9.5	11.9	11.9	13.5	14.3	11.9
85°	0.0	0.8	2.4	4.0	6.3	7.9	7.9	7.1	5.6	4.8	3.2
87.5°	0.0	0.0	0.8	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7	1528.7
2.5°	1535.8	1535.0	1516.0	1485.1	1477.9	1451.8	1448.6	1432.7	1441.5	1412.1	1409.0
5°	1523.1	1513.6	1490.6	1470.8	1412.9	1371.7	1339.2	1299.5	1276.5	1280.5	1265.4
7.5°	1541.4	1516.8	1476.4	1407.4	1336.8	1264.7	1225.8	1144.9	1115.6	1072.0	1065.6
10°	1522.3	1504.1	1441.5	1327.3	1229.8	1125.9	1034.7	945.1	876.9	847.6	841.3
12.5°	1520.8	1489.0	1384.4	1257.5	1116.4	967.3	834.9	723.1	655.7	617.7	608.9
15°	1496.2	1458.1	1320.2	1149.7	954.6	769.1	624.8	517.0	465.4	443.2	449.6
17.5°	1498.6	1441.5	1255.9	1035.5	795.3	564.5	426.6	371.1	357.6	363.1	363.1
20°	1496.2	1404.2	1178.2	903.9	608.9	391.7	313.2	293.4	302.1	319.5	315.6
22.5°	1483.5	1386.8	1106.9	765.1	448.0	290.2	251.3	252.1	265.6	287.0	291.8
25°	1493.0	1347.9	1016.5	624.8	326.7	231.5	218.0	223.6	237.9	253.7	256.9
27.5°	1485.9	1320.2	922.1	485.2	238.7	199.0	198.2	204.6	210.9	222.8	222.8
30°	1493.8	1294.8	829.4	360.8	196.6	182.4	179.2	183.9	190.3	192.7	191.9
32.5°	1523.1	1275.8	722.3	269.6	173.6	166.5	166.5	166.5	165.7	168.9	169.7
35°	1587.4	1278.9	628.0	208.5	158.6	153.0	150.6	147.5	145.9	147.5	148.3
37.5°	1657.1	1277.3	530.4	177.6	147.5	142.7	137.2	132.4	131.6	133.2	130.8
40°	1688.1	1292.4	440.1	159.4	137.2	131.6	122.9	118.9	119.7	121.3	119.7
42.5°	1730.1	1297.2	381.4	145.1	127.7	118.9	113.4	108.6	107.8	110.2	109.4
45°	1729.3	1270.2	319.5	137.2	118.9	109.4	102.3	98.3	98.3	99.9	100.7
47.5°	1780.0	1266.2	274.3	130.0	112.6	103.1	94.4	91.2	90.4	90.4	88.8
50°	1898.2	1321.7	239.5	122.1	104.7	95.9	88.8	84.8	81.7	80.1	79.3
52.5°	2128.9	1494.6	212.5	112.6	95.9	88.8	82.5	79.3	75.3	71.4	70.6
54°	2352.5	1673.0	210.9	104.7	88.8	84.0	78.5	76.9	72.2	66.6	65.0
55°	2453.2	1776.9	216.5	98.3	84.0	80.9	76.1	74.5	69.8	63.4	62.6
57.5°	2536.4	1817.3	213.3	81.7	76.1	75.3	71.4	69.0	63.4	54.7	53.1
60°	2041.7	1374.1	153.0	72.2	69.8	68.2	65.0	63.4	56.3	46.8	46.0
62.5°	1290.0	790.5	97.5	63.4	61.1	58.7	54.7	53.1	46.8	37.3	34.9
65°	549.5	327.5	65.8	56.3	52.3	48.4	45.2	42.8	37.3	27.8	27.0
67.5°	142.7	116.6	54.7	49.2	43.6	38.1	35.7	31.7	25.4	19.0	18.2
70°	64.2	58.7	46.0	41.2	34.9	29.3	26.2	22.2	16.7	12.7	11.9
72.5°	38.1	37.3	34.9	30.9	26.2	22.2	19.0	15.1	11.1	7.1	7.1
75°	23.8	23.0	23.8	21.4	18.2	16.7	14.3	10.3	6.3	3.2	3.2
77.5°	14.3	14.3	14.3	13.5	12.7	12.7	10.3	6.3	3.2	0.8	0.8
80°	11.1	11.1	11.9	11.1	11.1	11.1	8.7	4.8	1.6	0.0	0.0
82.5°	11.1	11.9	13.5	12.7	11.1	9.5	7.9	4.8	1.6	0.0	0.0
85°	3.2	2.4	4.0	5.6	7.9	7.1	5.6	4.0	1.6	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	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)