

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: P526983

Luminaire Tested: **GALN-SA2A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526983
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-SA2A-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 4489 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

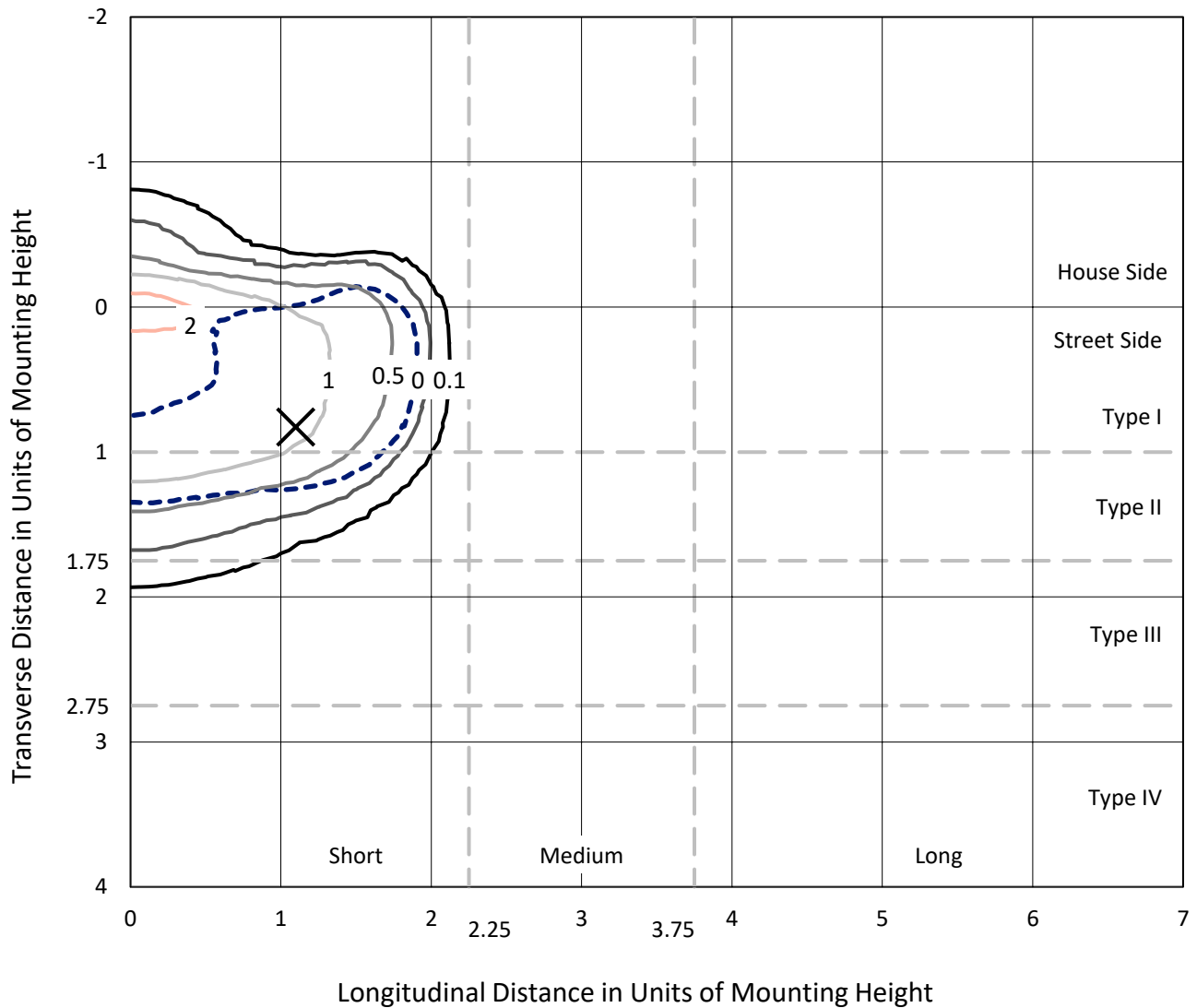
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

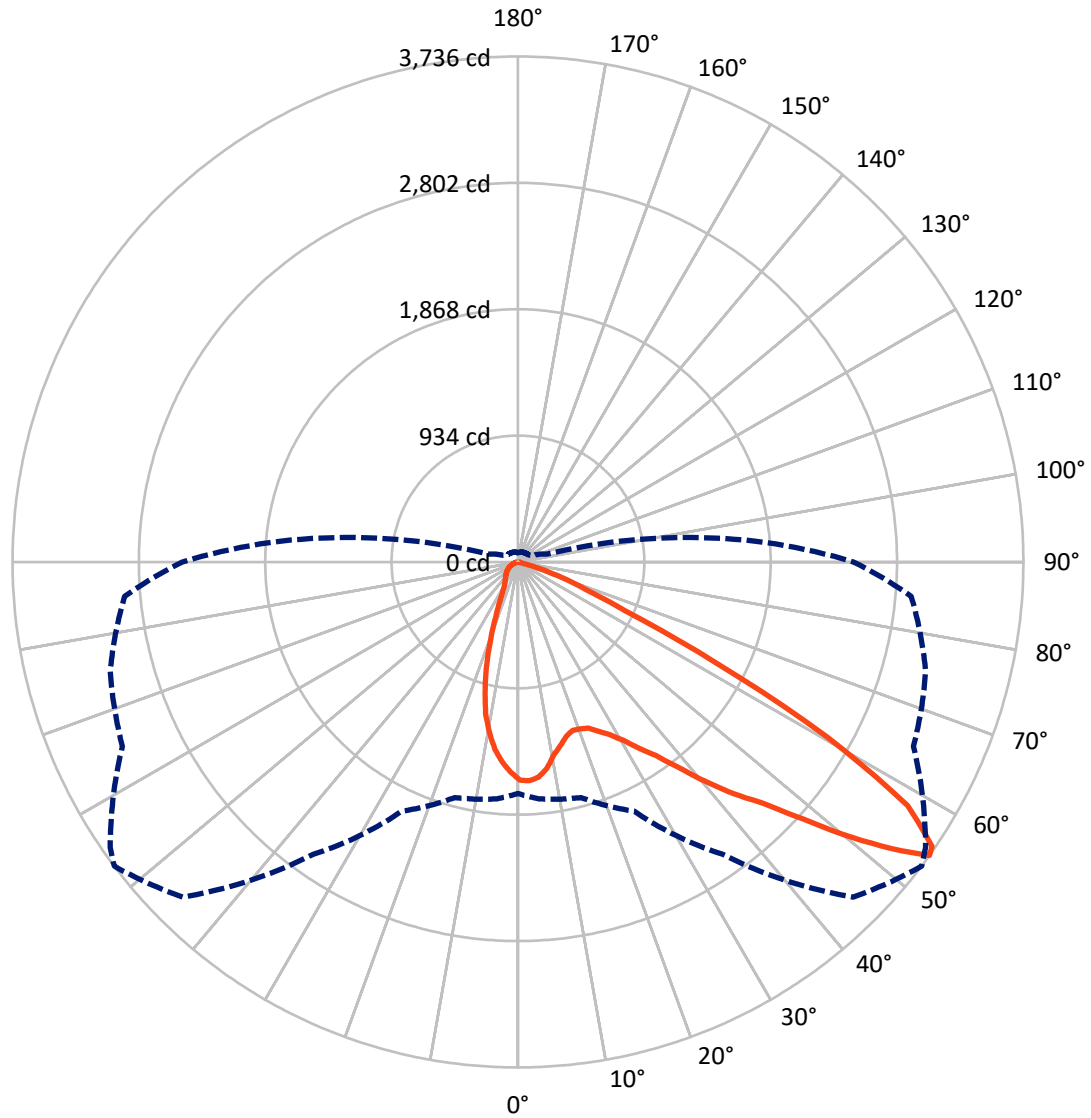
✕ Max cd
 - - - 1/2 Max cd



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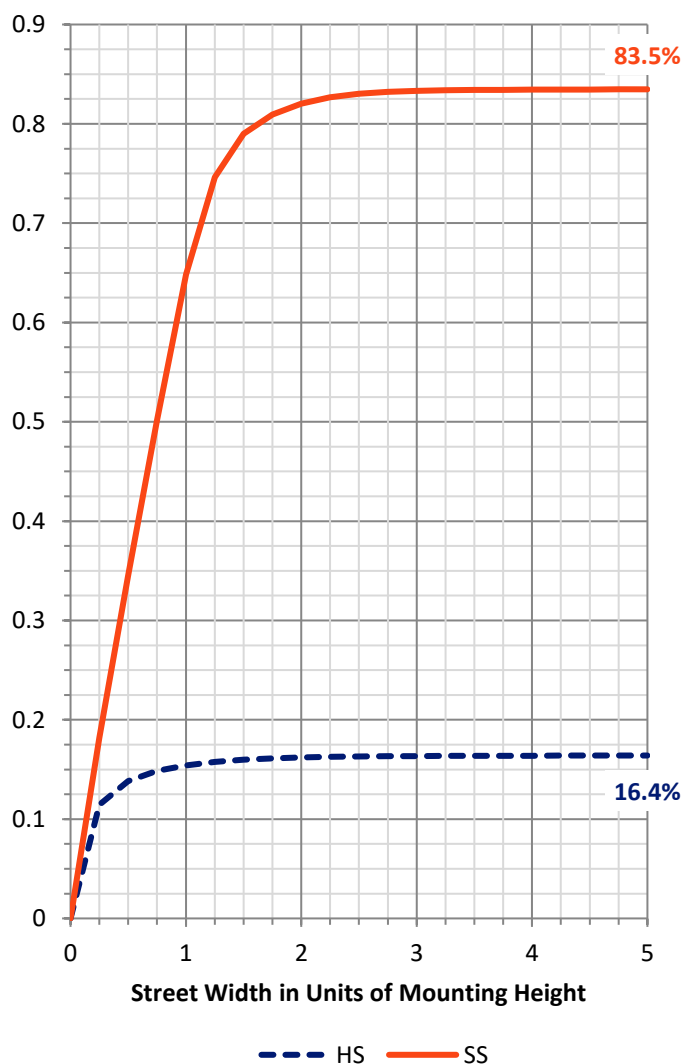
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.7	0.0	742.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3746.3	0.0	3746.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	4489.0	0.0	4489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.1
10°-20°	317.2	7.1
20°-30°	450.8	10.0
30°-40°	695.6	15.5
40°-50°	1090.7	24.3
50°-60°	1267.0	28.2
60°-70°	478.8	10.7
70°-80°	45.5	1.0
80°-90°	5.1	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°	4489.0	100.0
0°-180°	4489.0	100.0

Coefficient of Utilization



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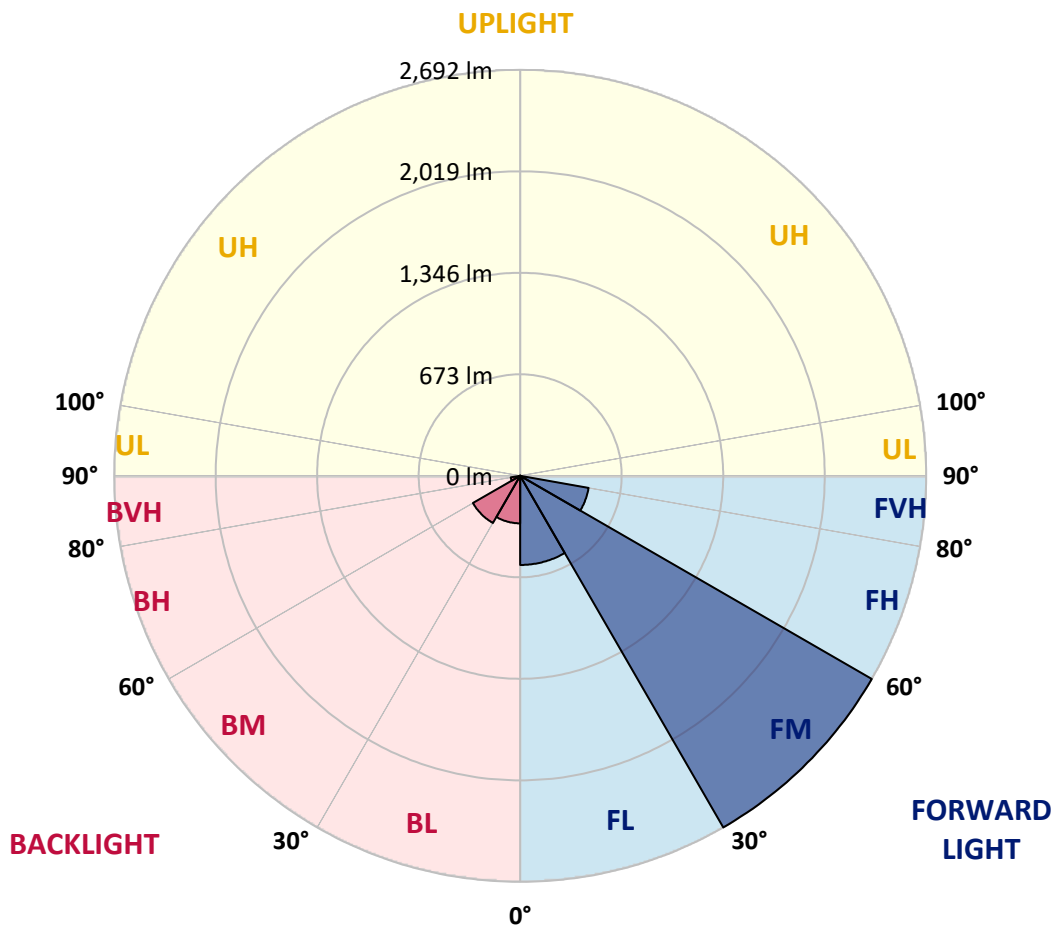
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.1	13.2			
FM (30°-60°)	2691.9	60.0			
FH (60°-80°)	460.6	10.3			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	315.2	7.0	B1/500		
BM (30°-60°)	361.4	8.1	B1/1000		
BH (60°-80°)	63.6	1.4	B0/110		G0/110
BVH (80°-90°)	2.5	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°	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4
2.5°	1604.0	1589.8	1604.0	1605.7	1615.7	1624.9	1619.1	1632.4	1624.9	1616.6	1614.0
5°	1474.4	1493.6	1494.5	1524.6	1517.9	1573.1	1597.3	1590.6	1631.6	1629.1	1623.2
7.5°	1358.1	1350.6	1360.6	1395.8	1440.1	1503.7	1538.8	1537.9	1596.5	1638.3	1634.1
10°	1250.3	1249.4	1270.3	1297.9	1335.6	1402.5	1451.0	1475.2	1566.4	1629.9	1639.1
12.5°	1177.5	1174.2	1196.7	1219.3	1278.7	1330.5	1392.4	1404.1	1508.7	1600.7	1615.7
15°	1129.8	1137.4	1139.0	1182.5	1220.2	1288.7	1337.2	1361.5	1481.9	1577.2	1635.0
17.5°	1121.5	1131.5	1132.3	1168.3	1208.4	1266.1	1308.8	1341.4	1459.3	1589.0	1635.8
20°	1138.2	1132.3	1137.4	1159.9	1199.2	1254.4	1316.3	1327.2	1451.8	1594.8	1645.0
22.5°	1185.9	1184.2	1171.6	1190.0	1217.6	1275.3	1333.9	1350.6	1473.5	1624.9	1652.5
25°	1238.6	1247.7	1236.0	1233.5	1252.8	1309.6	1387.4	1409.2	1546.3	1679.3	1675.9
27.5°	1337.2	1328.0	1328.0	1316.3	1311.3	1338.9	1445.1	1481.1	1627.4	1749.5	1702.7
30°	1431.7	1441.8	1434.2	1438.4	1405.0	1402.5	1527.1	1571.4	1771.3	1856.6	1759.6
32.5°	1581.4	1568.0	1580.6	1569.7	1525.4	1480.2	1638.3	1684.3	1945.2	1979.5	1844.9
35°	1706.0	1700.2	1753.7	1752.0	1680.1	1635.8	1756.2	1824.8	2066.5	2126.7	1945.2
37.5°	1883.3	1872.5	1933.5	1962.8	1898.4	1832.3	1925.1	2004.6	2179.4	2244.6	2048.1
40°	2065.6	2093.2	2175.2	2223.7	2155.1	2067.3	2131.7	2156.0	2254.6	2321.5	2118.3
42.5°	2296.5	2336.6	2420.2	2462.0	2456.2	2360.9	2341.6	2340.8	2309.0	2299.8	2170.2
45°	2518.1	2503.0	2631.8	2723.0	2796.6	2769.0	2544.0	2518.9	2395.1	2332.4	2183.6
47.5°	2615.1	2610.1	2697.9	2860.1	3111.0	3145.3	2838.4	2741.4	2540.7	2469.6	2256.3
50°	2489.6	2515.6	2602.5	2782.3	3167.0	3428.8	3199.7	3069.2	2710.4	2636.8	2428.6
52.5°	2079.9	2097.4	2180.2	2408.5	2976.4	3596.1	3545.9	3470.6	3022.4	2900.3	2728.8
54°	1710.2	1757.1	1802.2	2031.4	2636.8	3503.2	3735.7	3678.0	3225.6	3119.4	2917.8
55°	1489.4	1517.0	1549.7	1778.0	2401.8	3346.0	3714.0	3719.0	3361.9	3187.9	3044.9
57.5°	1088.0	1107.3	1073.8	1175.0	1649.2	2717.1	3397.0	3532.5	3545.9	3290.8	3122.7
60°	831.3	839.6	802.0	817.9	1025.3	1864.9	2627.6	2790.7	3198.8	2876.0	2645.2
62.5°	644.8	646.5	645.6	673.2	706.7	1097.2	1643.3	1788.0	2205.3	2042.2	1796.4
65°	475.0	467.5	480.9	564.5	603.0	689.9	865.6	970.9	1198.4	1011.9	723.4
67.5°	307.8	310.3	323.6	419.8	516.8	529.4	532.7	524.4	525.2	289.4	181.5
70°	184.8	189.0	184.8	237.5	369.6	379.7	347.1	338.7	264.3	68.6	67.7
72.5°	109.6	103.7	92.8	102.0	153.9	184.0	165.6	164.7	103.7	40.1	40.1
75°	46.0	41.8	34.3	30.9	41.0	39.3	39.3	35.1	27.6	26.8	25.1
77.5°	9.2	9.2	6.7	7.5	10.0	11.7	14.2	14.2	16.7	16.7	15.9
80°	0.0	0.8	2.5	5.0	7.5	10.9	12.5	12.5	14.2	14.2	11.7
82.5°	0.0	0.8	2.5	5.0	6.7	10.0	12.5	12.5	14.2	15.1	12.5
85°	0.0	0.8	2.5	4.2	6.7	8.4	8.4	7.5	5.9	5.0	3.3
87.5°	0.0	0.0	0.8	1.7	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4	1612.4
2.5°	1619.9	1619.1	1599.0	1566.4	1558.9	1531.3	1527.9	1511.2	1520.4	1489.4	1486.1
5°	1606.5	1596.5	1572.2	1551.3	1490.3	1446.8	1412.5	1370.7	1346.4	1350.6	1334.7
7.5°	1625.8	1599.8	1557.2	1484.4	1410.0	1333.9	1292.9	1207.6	1176.7	1130.7	1124.0
10°	1605.7	1586.4	1520.4	1400.0	1297.1	1187.5	1091.4	996.9	924.9	894.0	887.3
12.5°	1604.0	1570.6	1460.2	1326.4	1177.5	1020.3	880.6	762.7	691.6	651.5	642.3
15°	1578.1	1537.9	1392.4	1212.6	1006.9	811.2	659.0	545.3	490.9	467.5	474.2
17.5°	1580.6	1520.4	1324.7	1092.2	838.8	595.4	449.9	391.4	377.2	383.0	383.0
20°	1578.1	1481.1	1242.7	953.4	642.3	413.1	330.3	309.4	318.6	337.0	332.8
22.5°	1564.7	1462.7	1167.5	807.0	472.5	306.1	265.1	265.9	280.2	302.7	307.8
25°	1574.7	1421.7	1072.1	659.0	344.6	244.2	230.0	235.8	250.9	267.6	271.0
27.5°	1567.2	1392.4	972.6	511.8	251.7	209.9	209.1	215.8	222.5	235.0	235.0
30°	1575.6	1365.7	874.8	380.5	207.4	192.3	189.0	194.0	200.7	203.2	202.4
32.5°	1606.5	1345.6	761.9	284.3	183.1	175.6	175.6	175.6	174.8	178.1	179.0
35°	1674.3	1348.9	662.3	219.9	167.3	161.4	158.9	155.6	153.9	155.6	156.4
37.5°	1747.9	1347.3	559.5	187.3	155.6	150.5	144.7	139.7	138.8	140.5	138.0
40°	1780.5	1363.2	464.1	168.1	144.7	138.8	129.6	125.4	126.3	128.0	126.3
42.5°	1824.8	1368.2	402.3	153.0	134.6	125.4	119.6	114.6	113.7	116.2	115.4
45°	1824.0	1339.7	337.0	144.7	125.4	115.4	107.9	103.7	103.7	105.4	106.2
47.5°	1877.5	1335.6	289.4	137.2	118.8	108.7	99.5	96.2	95.3	95.3	93.7
50°	2002.1	1394.1	252.6	128.8	110.4	101.2	93.7	89.5	86.1	84.5	83.6
52.5°	2245.4	1576.4	224.1	118.8	101.2	93.7	87.0	83.6	79.4	75.3	74.4
54°	2481.3	1764.6	222.5	110.4	93.7	88.6	82.8	81.1	76.1	70.2	68.6
55°	2587.5	1874.1	228.3	103.7	88.6	85.3	80.3	78.6	73.6	66.9	66.1
57.5°	2675.3	1916.8	225.0	86.1	80.3	79.4	75.3	72.8	66.9	57.7	56.0
60°	2153.5	1449.3	161.4	76.1	73.6	71.9	68.6	66.9	59.4	49.3	48.5
62.5°	1360.6	833.8	102.9	66.9	64.4	61.9	57.7	56.0	49.3	39.3	36.8
65°	579.6	345.4	69.4	59.4	55.2	51.0	47.7	45.2	39.3	29.3	28.4
67.5°	150.5	122.9	57.7	51.9	46.0	40.1	37.6	33.5	26.8	20.1	19.2
70°	67.7	61.9	48.5	43.5	36.8	30.9	27.6	23.4	17.6	13.4	12.5
72.5°	40.1	39.3	36.8	32.6	27.6	23.4	20.1	15.9	11.7	7.5	7.5
75°	25.1	24.3	25.1	22.6	19.2	17.6	15.1	10.9	6.7	3.3	3.3
77.5°	15.1	15.1	15.1	14.2	13.4	13.4	10.9	6.7	3.3	0.8	0.8
80°	11.7	11.7	12.5	11.7	11.7	11.7	9.2	5.0	1.7	0.0	0.0
82.5°	11.7	12.5	14.2	13.4	11.7	10.0	8.4	5.0	1.7	0.0	0.0
85°	3.3	2.5	4.2	5.9	8.4	7.5	5.9	4.2	1.7	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	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)