

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: P527035

Luminaire Tested: **GALN-SA2A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527035
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-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 5000 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

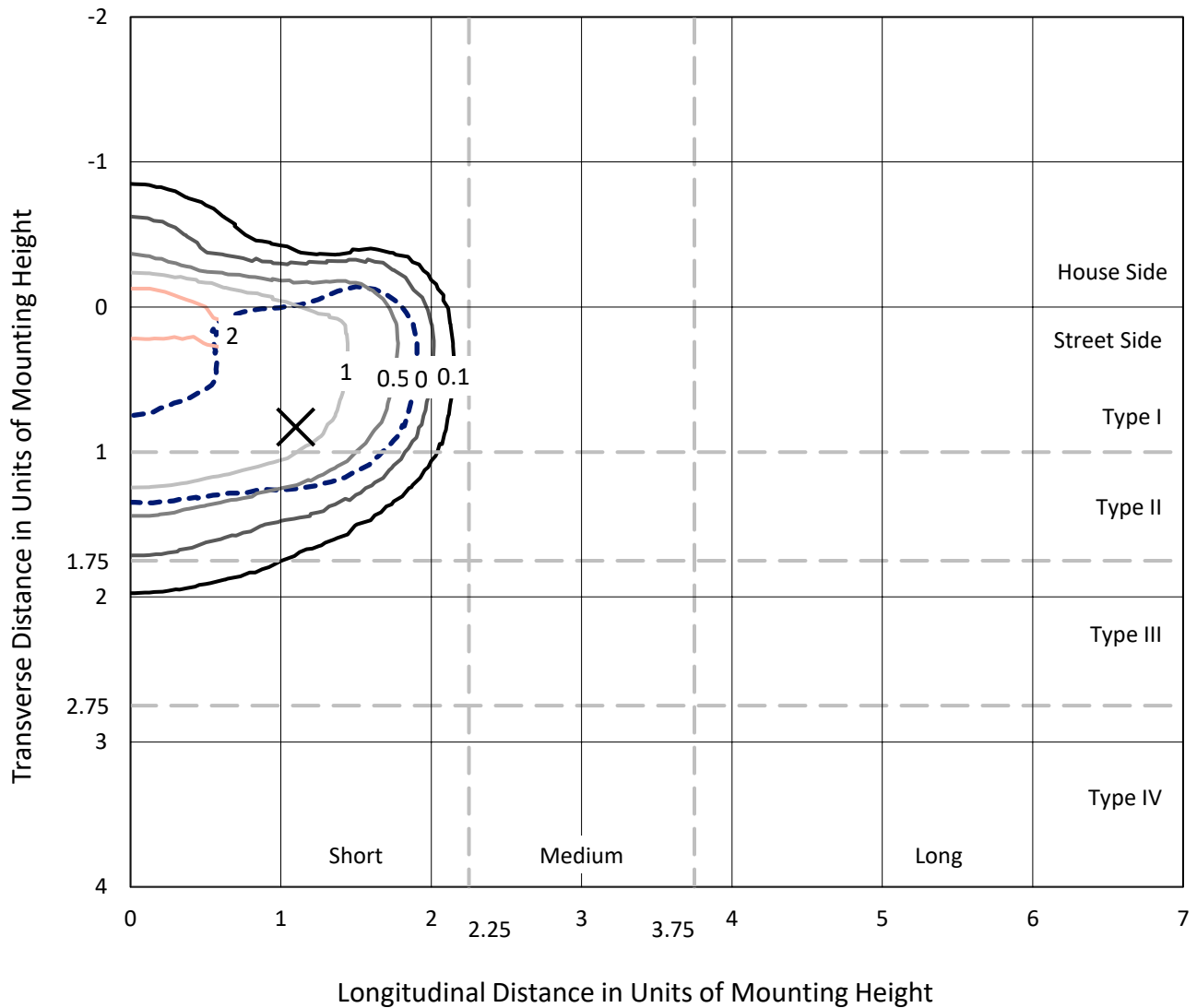
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

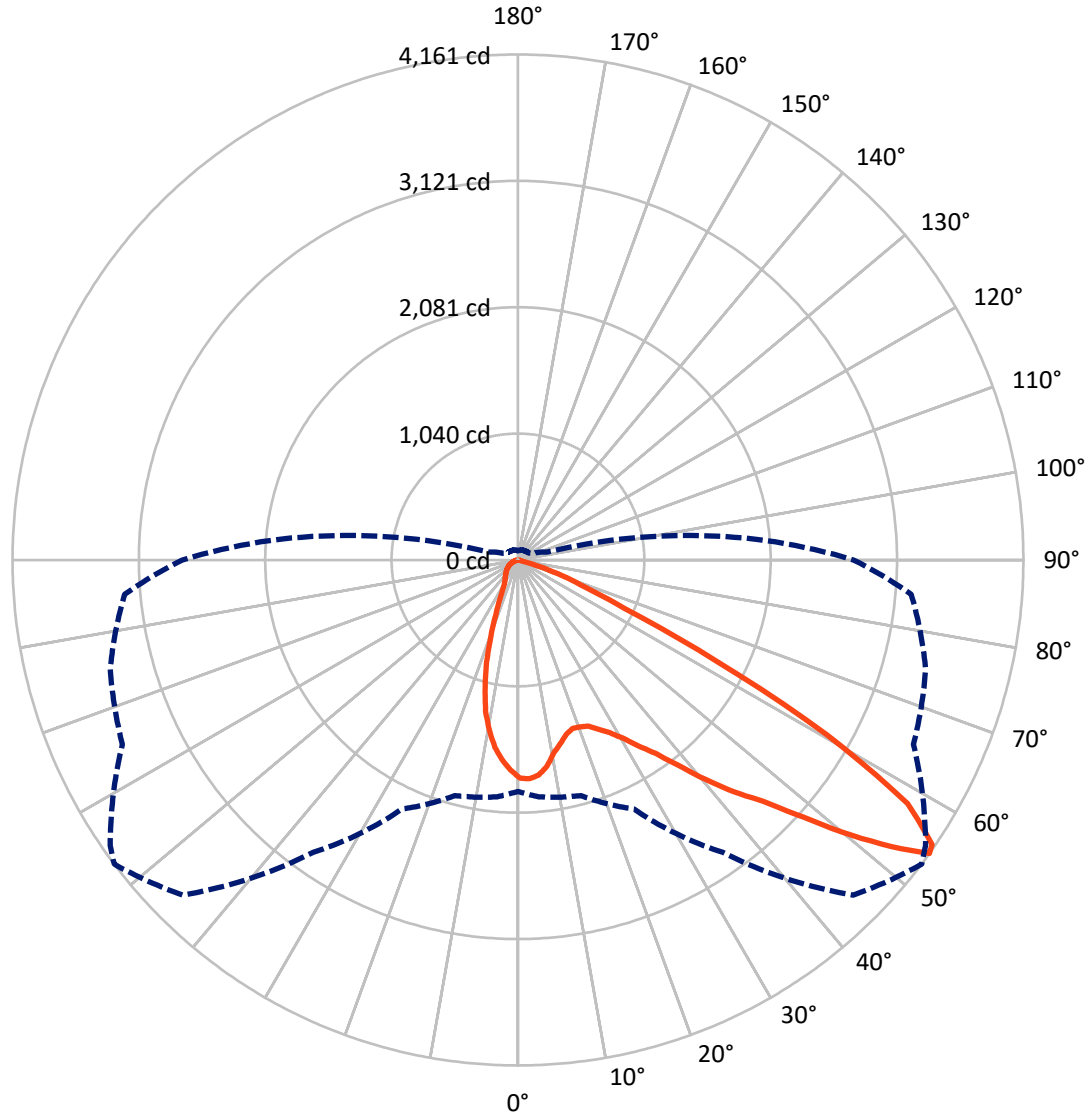
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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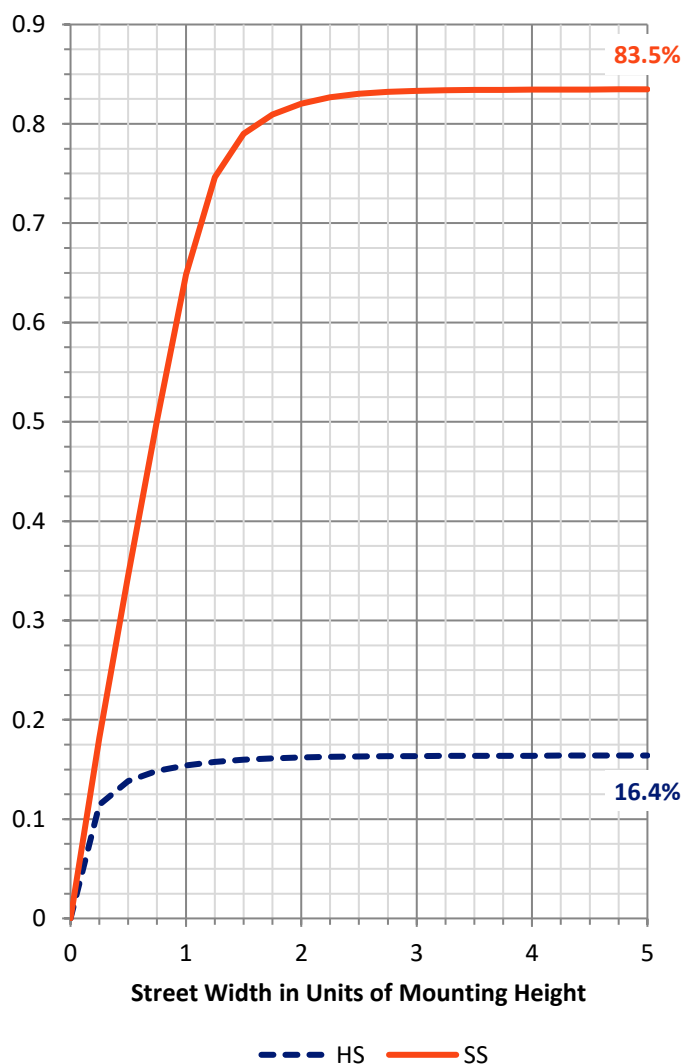
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.3	0.0	827.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4172.7	0.0	4172.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	5000.0	0.0	5000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	3.1
10°-20°	353.3	7.1
20°-30°	502.1	10.0
30°-40°	774.8	15.5
40°-50°	1214.9	24.3
50°-60°	1411.2	28.2
60°-70°	533.2	10.7
70°-80°	50.7	1.0
80°-90°	5.7	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°	5000.0	100.0
0°-180°	5000.0	100.0

Coefficient of Utilization



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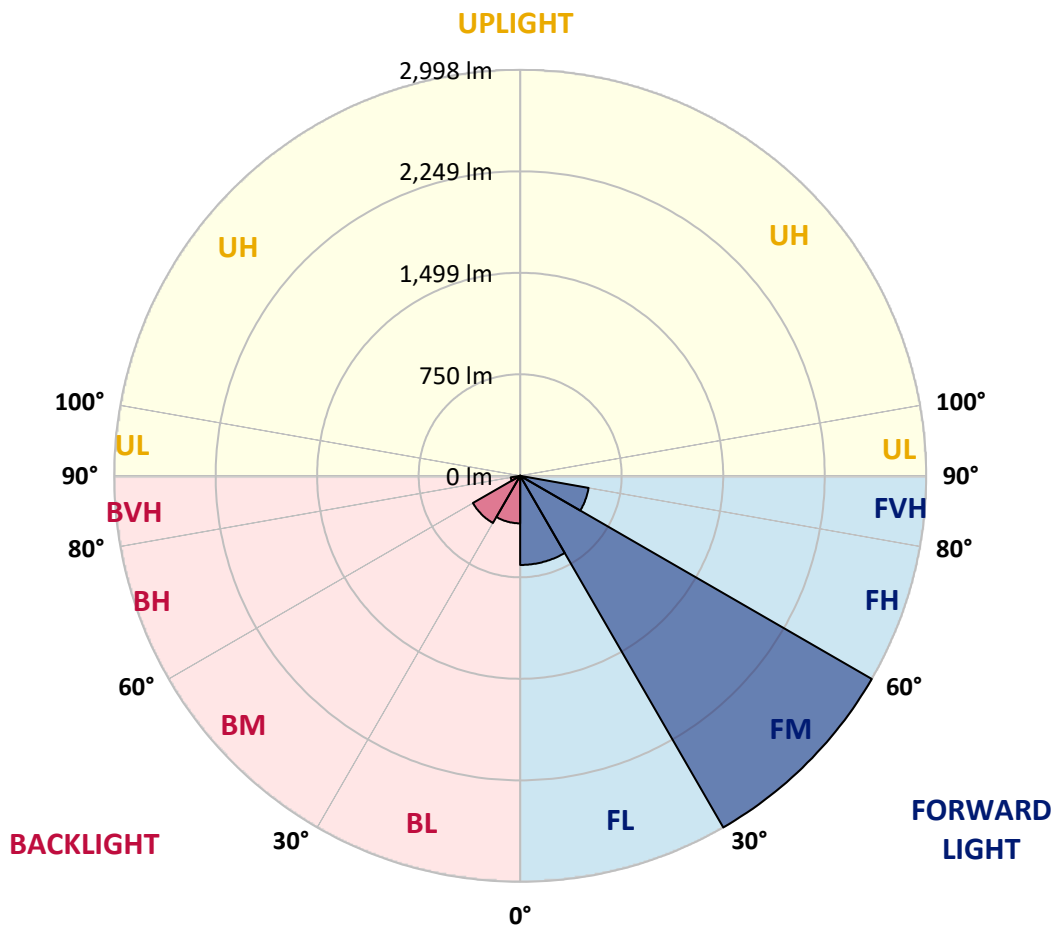
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.4	13.2			
FM (30°-60°)	2998.3	60.0			
FH (60°-80°)	513.1	10.3			G0/660
FVH (80°-90°)	3.0	0.1			G0/10
BL (0°-30°)	351.1	7.0	B1/500		
BM (30°-60°)	402.6	8.1	B1/1000		
BH (60°-80°)	70.9	1.4	B0/110		G0/110
BVH (80°-90°)	2.8	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°	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9
2.5°	1786.6	1770.8	1786.6	1788.5	1799.6	1809.9	1803.4	1818.3	1809.9	1800.6	1797.8
5°	1642.2	1663.6	1664.6	1698.1	1690.7	1752.1	1779.1	1771.7	1817.3	1814.5	1808.0
7.5°	1512.7	1504.4	1515.5	1554.7	1604.0	1674.8	1713.9	1713.0	1778.2	1824.8	1820.1
10°	1392.6	1391.6	1414.9	1445.7	1487.6	1562.1	1616.1	1643.2	1744.7	1815.5	1825.7
12.5°	1311.5	1307.8	1333.0	1358.1	1424.3	1482.0	1550.9	1564.0	1680.4	1782.9	1799.6
15°	1258.4	1266.8	1268.7	1317.1	1359.0	1435.4	1489.5	1516.5	1650.6	1756.8	1821.1
17.5°	1249.1	1260.3	1261.2	1301.3	1346.0	1410.3	1457.8	1494.1	1625.5	1769.8	1822.0
20°	1267.8	1261.2	1266.8	1292.0	1335.8	1397.2	1466.2	1478.3	1617.1	1776.4	1832.2
22.5°	1320.9	1319.0	1305.0	1325.5	1356.3	1420.5	1485.7	1504.4	1641.3	1809.9	1840.6
25°	1379.5	1389.8	1376.7	1374.0	1395.4	1458.7	1545.3	1569.6	1722.3	1870.4	1866.7
27.5°	1489.5	1479.2	1479.2	1466.2	1460.6	1491.3	1609.6	1649.7	1812.7	1948.7	1896.5
30°	1594.7	1605.9	1597.5	1602.2	1564.9	1562.1	1700.9	1750.3	1972.9	2067.9	1959.9
32.5°	1761.5	1746.5	1760.5	1748.4	1699.0	1648.7	1824.8	1876.0	2166.6	2204.8	2054.9
35°	1900.2	1893.7	1953.3	1951.5	1871.4	1822.0	1956.1	2032.5	2301.7	2368.8	2166.6
37.5°	2097.7	2085.6	2153.6	2186.2	2114.5	2040.9	2144.3	2232.8	2427.5	2500.1	2281.2
40°	2300.8	2331.5	2422.8	2476.8	2400.5	2302.6	2374.4	2401.4	2511.3	2585.8	2359.5
42.5°	2557.9	2602.6	2695.7	2742.3	2735.8	2629.6	2608.2	2607.2	2571.8	2561.6	2417.2
45°	2804.7	2788.0	2931.4	3032.9	3114.9	3084.2	2833.6	2805.7	2667.8	2597.9	2432.1
47.5°	2912.8	2907.2	3005.0	3185.7	3465.1	3503.3	3161.5	3053.4	2829.9	2750.7	2513.2
50°	2773.1	2801.9	2898.8	3099.1	3527.6	3819.1	3563.9	3418.6	3019.0	2937.0	2705.1
52.5°	2316.6	2336.2	2428.4	2682.7	3315.2	4005.4	3949.5	3865.7	3366.4	3230.4	3039.5
54°	1904.9	1957.1	2007.4	2262.6	2937.0	3902.0	4161.0	4096.7	3592.8	3474.5	3250.0
55°	1659.0	1689.7	1726.1	1980.4	2675.2	3726.9	4136.8	4142.3	3744.6	3550.8	3391.6
57.5°	1211.9	1233.3	1196.0	1308.7	1836.9	3026.4	3783.7	3934.6	3949.5	3665.4	3478.2
60°	925.9	935.2	893.3	911.0	1142.0	2077.2	2926.7	3108.4	3563.0	3203.4	2946.3
62.5°	718.2	720.0	719.1	749.9	787.1	1222.1	1830.4	1991.5	2456.3	2274.7	2000.8
65°	529.1	520.7	535.6	628.8	671.6	768.5	964.1	1081.5	1334.8	1127.1	805.7
67.5°	342.8	345.6	360.5	467.6	575.7	589.6	593.4	584.0	585.0	322.3	202.1
70°	205.9	210.5	205.9	264.5	411.7	422.9	386.6	377.3	294.4	76.4	75.5
72.5°	122.0	115.5	103.4	113.6	171.4	204.9	184.4	183.5	115.5	44.7	44.7
75°	51.2	46.6	38.2	34.5	45.6	43.8	43.8	39.1	30.7	29.8	27.9
77.5°	10.2	10.2	7.5	8.4	11.2	13.0	15.8	15.8	18.6	18.6	17.7
80°	0.0	0.9	2.8	5.6	8.4	12.1	14.0	14.0	15.8	15.8	13.0
82.5°	0.0	0.9	2.8	5.6	7.5	11.2	14.0	14.0	15.8	16.8	14.0
85°	0.0	0.9	2.8	4.7	7.5	9.3	9.3	8.4	6.5	5.6	3.7
87.5°	0.0	0.0	0.9	1.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9	1795.9
2.5°	1804.3	1803.4	1781.0	1744.7	1736.3	1705.6	1701.8	1683.2	1693.5	1659.0	1655.3
5°	1789.4	1778.2	1751.2	1727.9	1659.9	1611.5	1573.3	1526.7	1499.7	1504.4	1486.7
7.5°	1810.8	1781.9	1734.4	1653.4	1570.5	1485.7	1440.1	1345.1	1310.6	1259.4	1251.9
10°	1788.5	1767.0	1693.5	1559.3	1444.7	1322.7	1215.6	1110.3	1030.2	995.8	988.3
12.5°	1786.6	1749.3	1626.4	1477.3	1311.5	1136.4	980.9	849.5	770.3	725.6	715.4
15°	1757.7	1713.0	1550.9	1350.7	1121.5	903.5	734.0	607.3	546.8	520.7	528.2
17.5°	1760.5	1693.5	1475.5	1216.5	934.3	663.2	501.1	435.9	420.1	426.6	426.6
20°	1757.7	1649.7	1384.2	1061.9	715.4	460.2	367.9	344.7	354.9	375.4	370.7
22.5°	1742.8	1629.2	1300.4	898.9	526.3	340.9	295.3	296.2	312.0	337.2	342.8
25°	1754.0	1583.5	1194.2	734.0	383.8	272.0	256.2	262.7	279.4	298.1	301.8
27.5°	1745.6	1550.9	1083.3	570.1	280.4	233.8	232.9	240.3	247.8	261.7	261.7
30°	1754.9	1521.1	974.3	423.8	231.0	214.2	210.5	216.1	223.6	226.4	225.4
32.5°	1789.4	1498.8	848.6	316.7	204.0	195.6	195.6	195.6	194.7	198.4	199.3
35°	1864.8	1502.5	737.7	245.0	186.3	179.8	177.0	173.3	171.4	173.3	174.2
37.5°	1946.8	1500.6	623.2	208.7	173.3	167.7	161.1	155.6	154.6	156.5	153.7
40°	1983.1	1518.3	517.0	187.2	161.1	154.6	144.4	139.7	140.7	142.5	140.7
42.5°	2032.5	1523.9	448.0	170.5	150.0	139.7	133.2	127.6	126.7	129.5	128.5
45°	2031.6	1492.2	375.4	161.1	139.7	128.5	120.2	115.5	115.5	117.4	118.3
47.5°	2091.2	1487.6	322.3	152.8	132.3	121.1	110.8	107.1	106.2	106.2	104.3
50°	2230.0	1552.8	281.3	143.4	123.0	112.7	104.3	99.7	95.9	94.1	93.1
52.5°	2501.1	1755.9	249.6	132.3	112.7	104.3	96.9	93.1	88.5	83.8	82.9
54°	2763.7	1965.4	247.8	123.0	104.3	98.7	92.2	90.4	84.8	78.2	76.4
55°	2882.0	2087.5	254.3	115.5	98.7	95.0	89.4	87.6	82.0	74.5	73.6
57.5°	2979.8	2135.0	250.6	95.9	89.4	88.5	83.8	81.0	74.5	64.3	62.4
60°	2398.6	1614.3	179.8	84.8	82.0	80.1	76.4	74.5	66.1	55.0	54.0
62.5°	1515.5	928.7	114.6	74.5	71.7	68.9	64.3	62.4	55.0	43.8	41.0
65°	645.5	384.7	77.3	66.1	61.5	56.8	53.1	50.3	43.8	32.6	31.7
67.5°	167.7	136.9	64.3	57.8	51.2	44.7	41.9	37.3	29.8	22.4	21.4
70°	75.5	68.9	54.0	48.4	41.0	34.5	30.7	26.1	19.6	14.9	14.0
72.5°	44.7	43.8	41.0	36.3	30.7	26.1	22.4	17.7	13.0	8.4	8.4
75°	27.9	27.0	27.9	25.2	21.4	19.6	16.8	12.1	7.5	3.7	3.7
77.5°	16.8	16.8	16.8	15.8	14.9	14.9	12.1	7.5	3.7	0.9	0.9
80°	13.0	13.0	14.0	13.0	13.0	13.0	10.2	5.6	1.9	0.0	0.0
82.5°	13.0	14.0	15.8	14.9	13.0	11.2	9.3	5.6	1.9	0.0	0.0
85°	3.7	2.8	4.7	6.5	9.3	8.4	6.5	4.7	1.9	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9	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)