

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: P526595

Luminaire Tested: **GALN-SA1C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160 lumens
Efficiency: N/A
Efficacy: 73.0 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

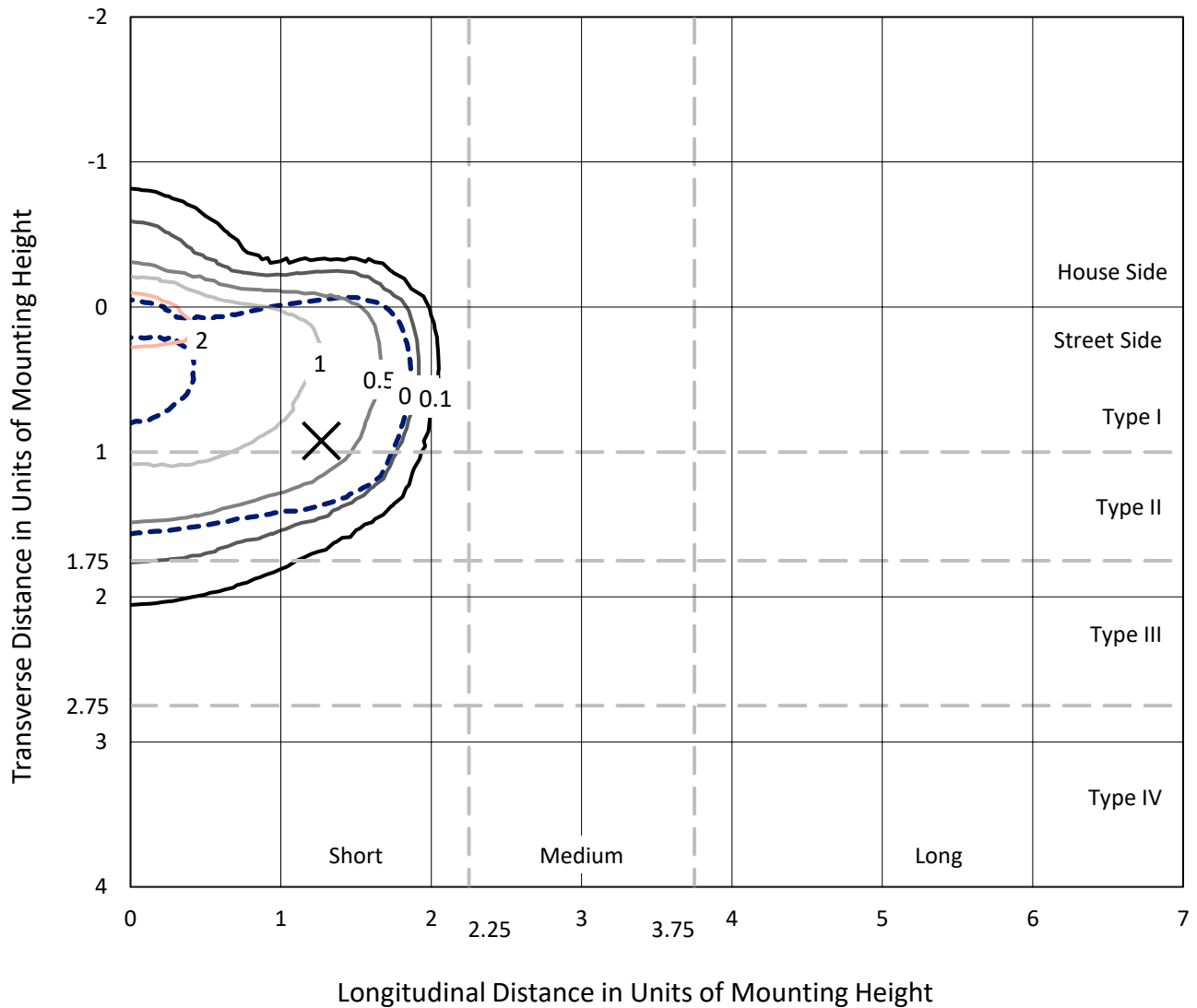
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

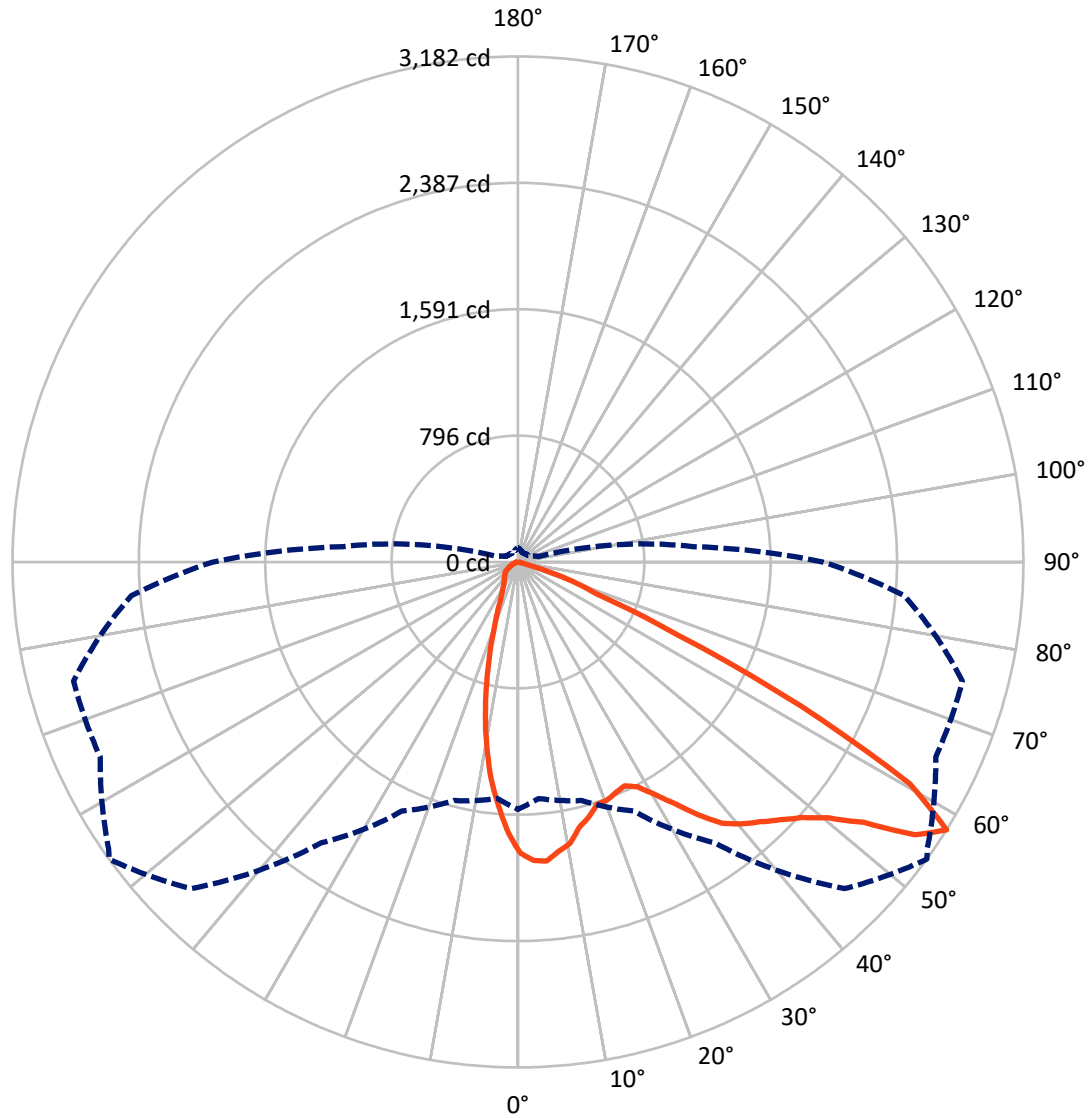
✕ Max cd
 - - - 1/2 Max cd



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 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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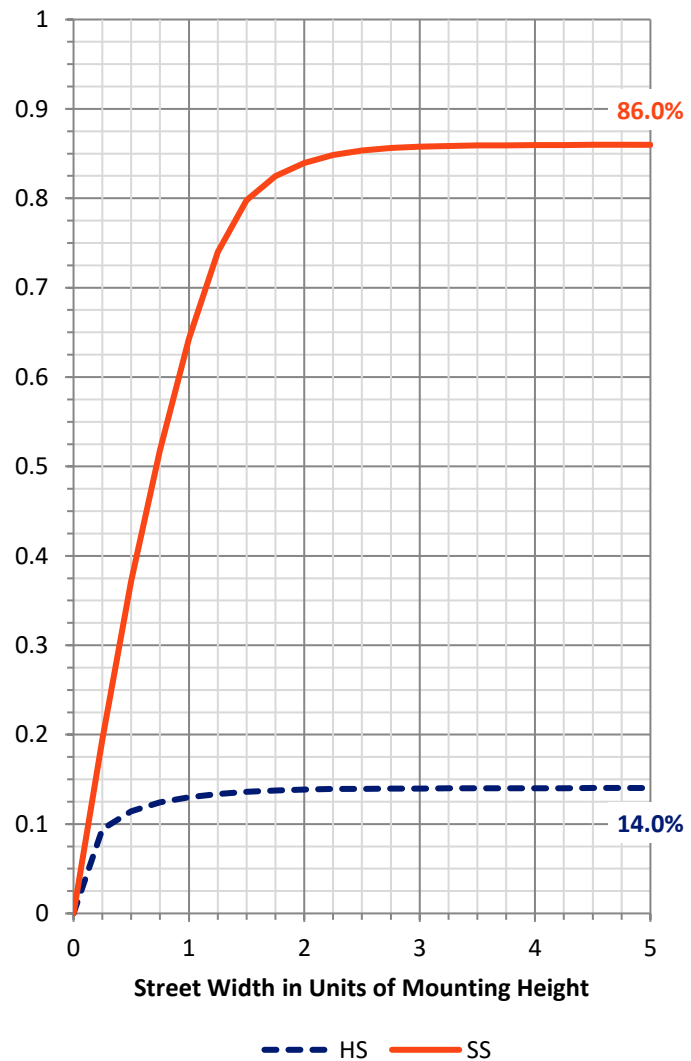
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.9	0.0	587.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3572.1	0.0	3572.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	4160.0	0.0	4160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	3.7
10°-20°	327.4	7.9
20°-30°	433.9	10.4
30°-40°	630.5	15.2
40°-50°	935.0	22.5
50°-60°	1169.2	28.1
60°-70°	461.2	11.1
70°-80°	45.9	1.1
80°-90°	3.6	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°	4160.0	100.0
0°-180°	4160.0	100.0

Coefficient of Utilization

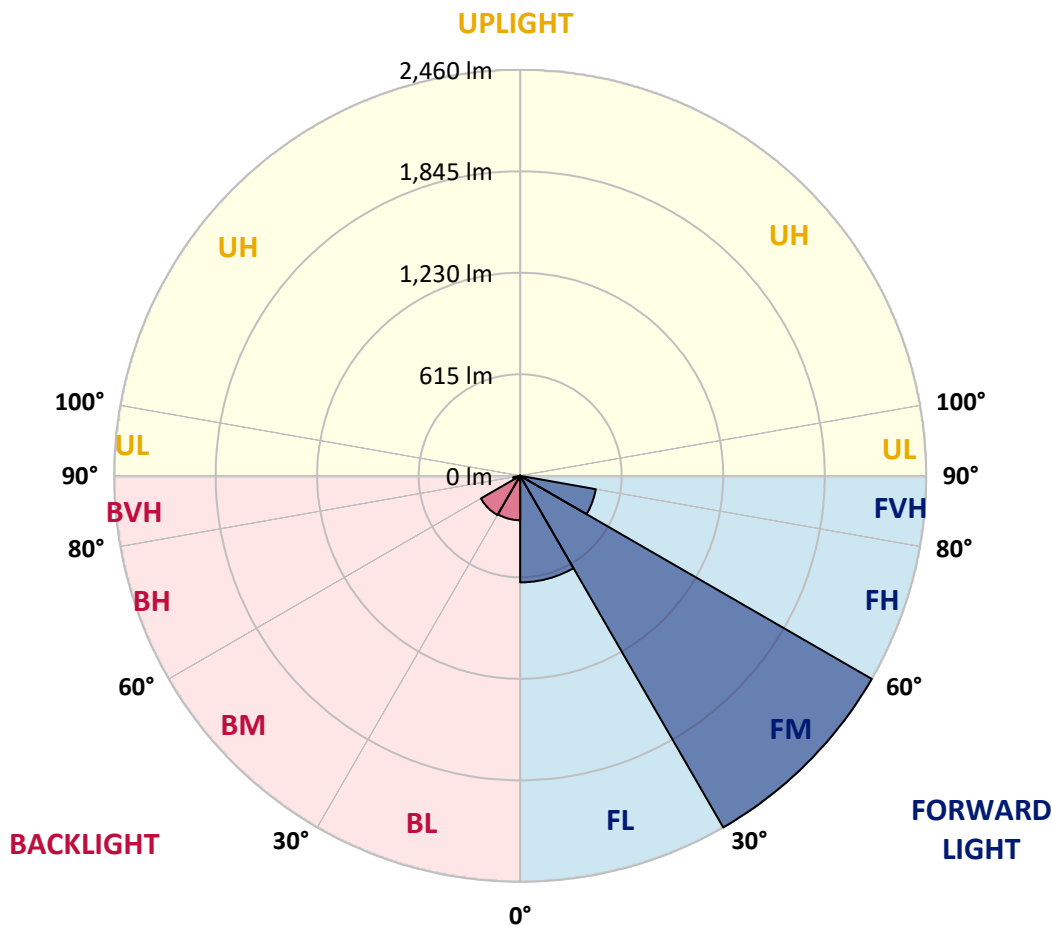


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.8	15.5			
FM (30°-60°)	2459.8	59.1			
FH (60°-80°)	464.9	11.2			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	268.9	6.5	B1/500		
BM (30°-60°)	274.9	6.6	B1/1000		
BH (60°-80°)	42.2	1.0	B0/110		G0/110
BVH (80°-90°)	1.9	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5
2.5°	1939.3	1919.2	1920.7	1913.8	1904.5	1911.4	1881.3	1888.2	1887.5	1846.5	1819.4
5°	1890.6	1912.2	1889.8	1908.3	1890.6	1909.9	1891.3	1877.4	1855.0	1824.8	1774.5
7.5°	1807.8	1786.9	1793.1	1816.3	1820.2	1863.5	1840.3	1858.1	1848.8	1789.2	1720.4
10°	1641.5	1636.8	1667.8	1698.7	1736.6	1783.0	1800.8	1790.8	1783.8	1761.4	1669.3
12.5°	1513.8	1527.0	1526.2	1577.3	1641.5	1667.8	1714.2	1712.6	1751.3	1709.5	1621.4
15°	1392.4	1399.3	1431.8	1463.6	1534.7	1609.8	1667.0	1674.7	1721.1	1691.8	1584.2
17.5°	1318.1	1308.1	1333.6	1371.5	1444.2	1542.5	1605.9	1624.5	1687.9	1681.7	1541.7
20°	1244.6	1244.6	1265.5	1310.4	1376.9	1487.5	1600.5	1595.1	1687.9	1670.1	1496.0
22.5°	1219.9	1232.3	1237.7	1271.7	1350.6	1445.8	1577.3	1587.3	1701.0	1664.7	1475.9
25°	1253.9	1237.7	1239.2	1266.3	1340.6	1425.6	1560.2	1582.7	1725.0	1691.8	1459.7
27.5°	1259.3	1275.6	1280.2	1298.8	1348.3	1431.8	1602.8	1648.4	1784.6	1755.2	1464.3
30°	1306.5	1322.8	1322.0	1353.7	1387.7	1482.1	1697.9	1707.2	1907.6	1834.9	1492.9
32.5°	1363.8	1380.8	1386.2	1423.3	1450.4	1574.2	1814.0	1838.0	2025.9	1960.2	1568.0
35°	1434.9	1428.7	1453.5	1490.6	1548.6	1708.8	1955.5	1995.8	2153.6	2122.6	1645.3
37.5°	1523.9	1516.2	1540.1	1600.5	1679.4	1868.1	2086.3	2112.6	2246.4	2273.5	1788.4
40°	1586.5	1589.6	1662.4	1743.6	1827.1	2019.7	2169.0	2194.6	2311.4	2414.2	1896.7
42.5°	1691.0	1710.3	1797.7	1896.7	1984.2	2133.4	2236.3	2261.1	2341.5	2527.2	2042.9
45°	1842.6	1834.1	1930.8	2041.4	2138.1	2251.8	2316.0	2307.5	2359.3	2639.3	2135.0
47.5°	2037.5	2039.1	2103.3	2197.7	2298.2	2354.7	2405.0	2374.8	2396.5	2757.7	2258.0
50°	2170.6	2182.2	2234.0	2330.7	2381.0	2467.6	2531.8	2513.3	2506.3	2828.9	2335.3
52.5°	2204.6	2239.4	2267.3	2387.9	2505.5	2642.4	2724.4	2763.9	2640.1	2852.8	2433.6
55°	1947.8	1978.7	2077.0	2242.5	2552.7	2919.4	3032.3	3033.1	2814.9	2959.6	2502.4
57.5°	1557.2	1494.5	1554.8	1730.4	2158.2	2907.8	3182.4	3146.0	2902.4	2896.9	2442.9
60°	1076.8	1061.3	1065.2	1134.8	1493.7	2312.9	2835.8	2883.0	2672.6	2510.9	1933.9
62.5°	853.2	840.1	823.1	815.3	927.5	1441.1	2000.4	2066.9	1868.9	1628.3	1146.4
65°	668.3	660.6	662.9	693.9	693.1	817.6	1093.8	1066.7	854.0	631.2	360.5
67.5°	451.0	462.6	471.9	565.5	613.4	569.3	528.3	512.9	277.7	116.8	79.7
70°	253.7	255.3	265.3	353.5	465.7	441.7	364.3	364.3	138.5	42.5	45.6
72.5°	138.5	133.8	124.5	152.4	207.3	210.4	162.4	141.6	41.0	27.8	25.5
75°	67.3	66.5	57.2	47.2	44.9	37.1	28.6	26.3	18.6	17.8	15.5
77.5°	13.9	13.2	7.0	7.0	7.7	8.5	10.8	10.8	13.2	13.2	10.8
80°	0.0	0.0	0.8	3.1	5.4	7.7	9.3	9.3	10.8	10.8	8.5
82.5°	0.0	0.0	0.8	2.3	4.6	7.0	8.5	9.3	10.8	11.6	9.3
85°	0.0	0.0	0.0	1.5	3.9	5.4	4.6	4.6	3.9	3.1	1.5
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5	1832.5
2.5°	1805.5	1803.9	1768.3	1748.2	1711.9	1680.1	1654.6	1636.1	1636.1	1624.5	1613.6
5°	1754.4	1741.3	1665.4	1616.7	1547.9	1496.8	1462.0	1434.9	1392.4	1404.0	1358.4
7.5°	1691.0	1657.7	1557.2	1482.9	1387.7	1315.0	1240.8	1175.0	1111.6	1083.0	1098.4
10°	1622.9	1564.9	1429.5	1311.9	1193.6	1060.5	973.9	868.7	803.7	799.8	782.8
12.5°	1551.0	1485.2	1320.4	1158.0	1002.5	842.4	710.1	611.9	567.8	519.1	528.3
15°	1496.8	1399.3	1199.0	1003.3	796.8	635.1	502.0	426.2	384.5	372.9	369.0
17.5°	1438.0	1333.6	1075.2	838.5	625.0	457.2	361.2	324.9	308.6	308.6	306.3
20°	1376.9	1259.3	952.2	685.4	468.8	341.1	289.3	277.7	276.9	276.2	276.2
22.5°	1336.7	1174.2	840.8	544.6	353.5	273.1	251.4	246.8	249.9	259.1	259.1
25°	1294.1	1092.3	717.9	420.0	273.8	234.4	222.0	225.1	232.8	241.3	238.3
27.5°	1250.8	1038.9	601.8	329.5	224.3	205.0	200.3	207.3	215.8	223.6	221.2
30°	1240.8	981.6	492.0	249.9	192.6	178.7	181.8	188.0	196.5	199.6	202.7
32.5°	1256.2	936.8	403.0	205.0	167.9	164.0	164.0	167.1	172.5	179.5	177.1
35°	1300.3	911.2	318.7	177.9	153.9	150.1	149.3	152.4	155.5	157.8	155.5
37.5°	1367.6	891.1	260.7	157.8	144.7	138.5	136.9	136.1	139.2	140.0	141.6
40°	1453.5	902.0	221.2	145.4	135.4	128.4	123.8	123.8	123.8	126.1	126.9
42.5°	1546.3	916.7	191.1	138.5	126.9	118.4	113.7	112.2	113.7	116.8	116.0
45°	1643.8	945.3	171.7	127.6	119.1	108.3	102.1	100.6	104.4	110.6	109.8
47.5°	1735.1	986.3	157.0	120.7	111.4	101.3	93.6	92.1	99.0	107.5	108.3
50°	1826.3	1057.4	151.6	115.3	106.0	94.4	87.4	85.9	93.6	104.4	106.7
52.5°	1931.6	1134.0	147.7	108.3	99.8	89.0	81.2	79.7	88.2	102.1	102.9
55°	2000.4	1199.0	144.7	95.9	88.2	80.4	74.3	73.5	82.8	95.1	98.2
57.5°	1919.9	1108.5	133.8	83.5	75.0	71.2	65.8	65.8	73.5	85.1	87.4
60°	1455.8	729.5	95.1	67.3	63.4	61.1	58.8	58.8	65.0	73.5	74.3
62.5°	852.5	393.0	61.1	54.1	54.1	51.8	48.0	48.0	54.1	58.8	59.6
65°	253.0	126.1	49.5	46.4	45.6	41.8	37.9	37.1	41.8	44.1	43.3
67.5°	72.7	58.0	41.0	38.7	37.9	31.7	29.4	28.6	29.4	27.8	27.1
70°	43.3	39.5	31.7	32.5	28.6	23.2	20.9	20.1	18.6	16.2	14.7
72.5°	24.0	24.0	23.2	24.8	20.1	15.5	13.2	10.8	8.5	7.0	6.2
75°	14.7	15.5	16.2	17.0	13.2	10.1	8.5	5.4	3.1	1.5	1.5
77.5°	10.1	10.8	11.6	12.4	10.8	9.3	7.0	3.9	0.8	0.0	0.0
80°	7.7	8.5	10.1	10.8	11.6	12.4	9.3	3.9	0.8	0.0	0.0
82.5°	8.5	9.3	11.6	10.8	10.8	10.8	8.5	3.9	0.8	0.0	0.0
85°	1.5	2.3	3.9	3.9	5.4	7.0	5.4	1.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)