

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: P527697

Luminaire Tested: **GALN-SA2D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7769 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

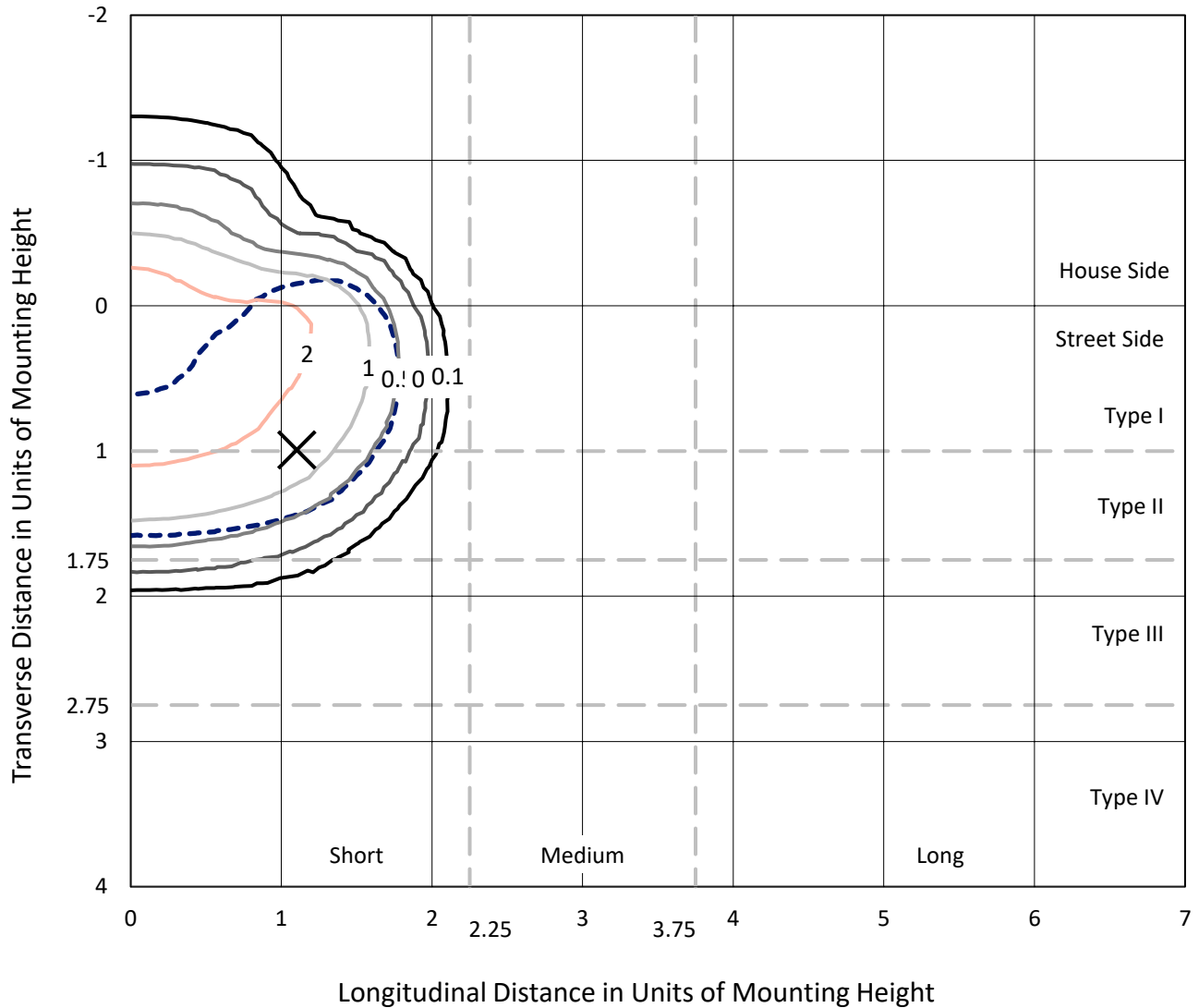
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

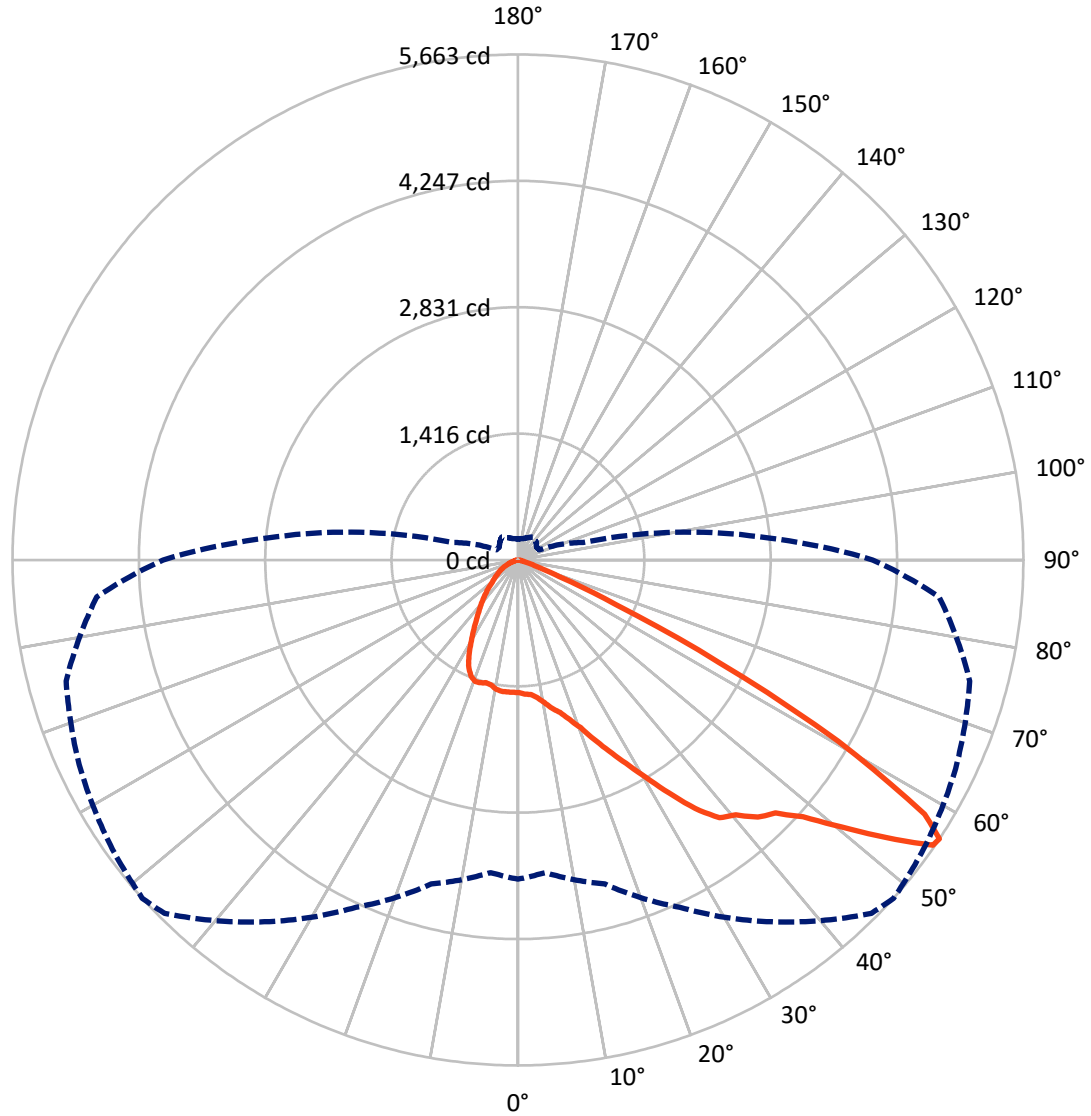
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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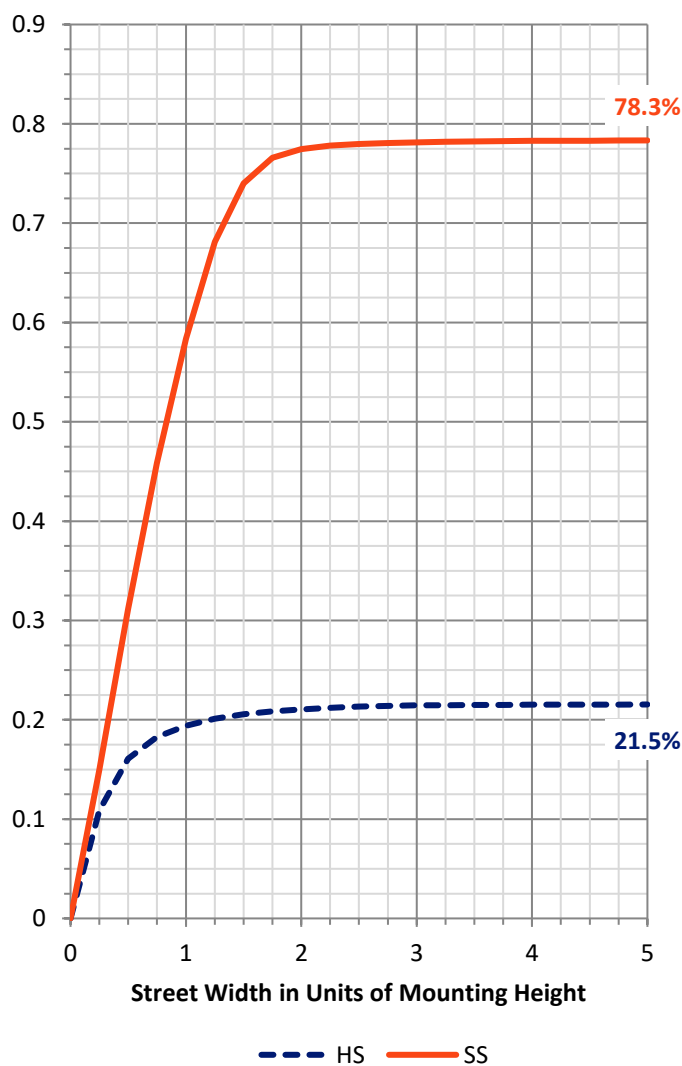
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.6	0.0	1689.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6079.4	0.0	6079.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	7769.0	0.0	7769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	1.9
10°-20°	461.9	5.9
20°-30°	837.9	10.8
30°-40°	1316.1	16.9
40°-50°	1920.0	24.7
50°-60°	2313.2	29.8
60°-70°	677.3	8.7
70°-80°	85.9	1.1
80°-90°	12.0	0.2
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°	7769.0	100.0
0°-180°	7769.0	100.0

Coefficient of Utilization

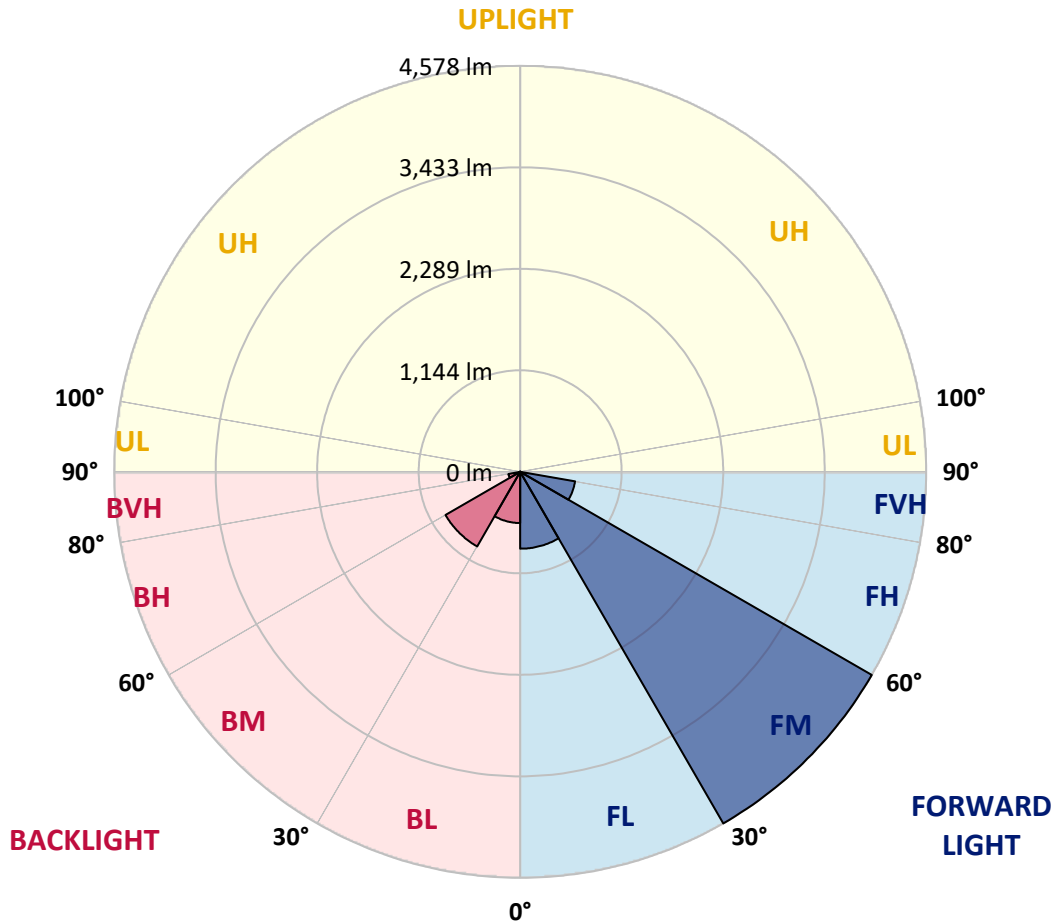


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.9	11.2			
FM (30°-60°)	4577.5	58.9			
FH (60°-80°)	629.0	8.1			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	577.5	7.4	B2/1000		
BM (30°-60°)	971.9	12.5	B1/1000		
BH (60°-80°)	134.2	1.7	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9
2.5°	1510.8	1503.7	1503.7	1492.4	1505.1	1499.4	1503.7	1489.5	1503.7	1482.5	1499.4
5°	1517.8	1519.2	1513.6	1520.7	1520.7	1529.1	1515.0	1527.7	1534.8	1519.2	1512.2
7.5°	1554.6	1557.4	1556.0	1550.4	1561.7	1560.3	1558.9	1549.0	1551.8	1546.1	1537.6
10°	1626.8	1625.3	1632.4	1618.3	1609.8	1619.7	1622.5	1606.9	1595.6	1591.4	1564.5
12.5°	1731.4	1714.5	1704.6	1690.4	1694.7	1680.5	1706.0	1679.1	1673.4	1648.0	1621.1
15°	1816.3	1813.5	1814.9	1792.3	1766.8	1772.5	1772.5	1758.3	1749.8	1718.7	1680.5
17.5°	1990.3	1930.9	1943.6	1915.3	1894.1	1892.7	1880.0	1882.8	1860.2	1795.1	1737.1
20°	2126.1	2100.6	2080.8	2032.7	2000.2	2010.1	2004.4	1990.3	1983.2	1898.4	1816.3
22.5°	2247.7	2256.2	2223.7	2211.0	2165.7	2169.9	2181.3	2168.5	2114.8	2027.1	1905.4
25°	2418.9	2409.0	2365.2	2349.6	2307.2	2322.7	2366.6	2356.7	2322.7	2164.3	1974.7
27.5°	2621.2	2587.2	2595.7	2525.0	2484.0	2527.8	2580.2	2629.7	2533.5	2325.6	2056.8
30°	2764.1	2728.7	2725.9	2723.0	2713.1	2764.1	2824.9	2870.2	2792.4	2486.8	2192.6
32.5°	2834.8	2843.3	2867.3	2858.8	2945.1	3049.8	3113.5	3178.5	3080.9	2749.9	2372.2
35°	3022.9	2969.2	3022.9	3028.6	3117.7	3339.8	3420.4	3576.0	3552.0	3122.0	2591.5
37.5°	3133.3	3129.0	3136.1	3189.9	3276.1	3550.6	3665.1	3785.4	3740.1	3345.5	2864.5
40°	3315.7	3327.1	3325.7	3366.7	3461.4	3709.0	3755.7	3853.3	3857.5	3655.2	3266.2
42.5°	3608.6	3563.3	3533.6	3576.0	3709.0	3846.2	3939.6	3919.8	4059.8	4031.5	3782.6
45°	3871.7	3898.6	3854.7	3925.4	3973.5	4047.1	4044.3	4086.7	4264.9	4399.3	4171.6
47.5°	4117.8	4134.8	4156.0	4204.1	4308.8	4320.1	4296.0	4277.7	4523.8	4662.4	4472.9
50°	4264.9	4280.5	4379.5	4465.8	4661.0	4686.5	4700.6	4653.9	4820.8	4836.4	4757.2
52.5°	4225.3	4242.3	4380.9	4665.2	4976.5	5209.9	5167.4	5088.2	5078.3	5139.1	5020.3
55°	3874.5	3858.9	4049.9	4492.7	5075.5	5635.6	5641.3	5557.8	5398.0	5357.0	4980.7
56°	3576.0	3515.2	3758.5	4293.2	4948.2	5598.9	5662.5	5573.4	5423.5	5239.6	4736.0
57.5°	2929.6	2987.6	3229.5	3672.2	4508.2	5334.3	5371.1	5349.9	5236.7	4928.4	4167.3
60°	1615.4	1717.3	1930.9	2472.7	3209.7	4093.8	4123.5	4296.0	4317.3	3774.1	2867.3
62.5°	686.1	674.7	896.8	1295.7	1827.6	2471.3	2526.4	2703.2	2735.8	2175.6	1438.6
65°	278.7	294.2	406.0	652.1	966.2	1126.0	1203.8	1261.8	1369.3	898.3	530.5
67.5°	183.9	182.5	239.1	372.0	520.6	502.2	502.2	530.5	490.9	366.4	229.2
70°	131.6	135.8	171.2	257.5	323.9	240.5	230.6	220.7	250.4	241.9	185.3
72.5°	86.3	91.9	114.6	154.2	168.3	131.6	131.6	158.4	206.5	195.2	151.4
75°	56.6	58.0	70.7	89.1	83.5	67.9	75.0	106.1	149.9	144.3	107.5
77.5°	38.2	39.6	48.1	58.0	46.7	38.2	41.0	53.8	73.6	73.6	56.6
80°	14.1	15.6	19.8	18.4	21.2	26.9	29.7	36.8	43.9	43.9	38.2
82.5°	0.0	1.4	4.2	9.9	15.6	21.2	24.0	28.3	32.5	36.8	35.4
85°	0.0	1.4	4.2	7.1	11.3	12.7	14.1	9.9	8.5	8.5	7.1
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8	1.4	1.4
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°	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9	1483.9
2.5°	1483.9	1482.5	1482.5	1478.2	1486.7	1482.5	1485.3	1483.9	1465.5	1479.6	1469.7
5°	1499.4	1509.3	1493.8	1491.0	1479.6	1483.9	1483.9	1469.7	1482.5	1481.1	1478.2
7.5°	1539.1	1522.1	1505.1	1488.1	1485.3	1481.1	1465.5	1459.8	1469.7	1458.4	1475.4
10°	1556.0	1558.9	1533.4	1510.8	1489.5	1459.8	1438.6	1425.9	1410.3	1427.3	1437.2
12.5°	1633.8	1605.5	1561.7	1526.3	1454.2	1424.5	1403.3	1397.6	1424.5	1430.1	1420.2
15°	1660.7	1656.5	1599.9	1520.7	1445.7	1410.3	1414.6	1403.3	1406.1	1391.9	1394.8
17.5°	1715.9	1667.8	1601.3	1502.3	1444.3	1435.8	1410.3	1365.1	1339.6	1328.3	1338.2
20°	1776.7	1730.0	1633.8	1509.3	1457.0	1434.4	1350.9	1295.7	1243.4	1215.1	1216.5
22.5°	1830.5	1772.5	1619.7	1512.2	1468.3	1375.0	1274.5	1165.6	1100.5	1056.7	1058.1
25°	1895.5	1813.5	1625.3	1517.8	1438.6	1280.2	1135.9	1029.8	952.0	922.3	932.2
27.5°	1932.3	1838.9	1656.5	1530.6	1360.8	1145.8	990.2	891.2	845.9	831.8	830.4
30°	2042.6	1895.5	1694.7	1505.1	1230.7	1001.5	857.2	796.4	752.6	739.8	742.6
32.5°	2206.7	1998.8	1744.2	1438.6	1097.7	872.8	770.9	725.7	684.7	660.6	657.8
35°	2343.9	2175.6	1796.5	1335.4	943.5	773.8	710.1	653.5	591.3	564.4	557.3
37.5°	2605.6	2375.1	1785.2	1179.8	796.4	700.2	645.0	575.7	522.0	485.2	481.0
40°	2953.6	2608.5	1730.0	990.2	687.5	635.1	575.7	509.2	442.8	411.6	408.8
42.5°	3376.6	2894.2	1629.6	797.8	578.6	570.1	516.3	439.9	380.5	357.9	359.3
45°	3720.3	3138.9	1527.7	640.8	497.9	506.4	459.7	387.6	346.6	328.2	328.2
47.5°	4025.9	3304.4	1417.4	529.0	423.0	442.8	401.7	359.3	323.9	309.8	307.0
50°	4320.1	3472.8	1307.1	428.6	360.7	380.5	376.3	342.3	314.0	297.1	298.5
52.5°	4504.0	3499.6	1167.0	350.8	315.4	338.1	352.2	321.1	290.0	280.1	277.3
55°	4279.1	3153.1	905.3	288.6	267.4	297.1	323.9	288.6	264.5	247.5	246.1
56°	3976.4	2819.2	756.8	265.9	253.2	285.7	314.0	275.8	249.0	239.1	232.0
57.5°	3366.7	2307.2	558.8	236.2	234.8	265.9	298.5	263.1	232.0	223.5	223.5
60°	2099.2	1298.6	338.1	198.0	203.7	236.2	268.8	234.8	206.5	206.5	210.8
62.5°	956.2	540.4	205.1	168.3	175.4	203.7	239.1	212.2	196.6	212.2	215.0
65°	325.4	233.4	148.5	134.4	138.6	168.3	205.1	215.0	213.6	223.5	229.2
67.5°	182.5	149.9	124.5	111.8	108.9	124.5	168.3	215.0	206.5	202.3	205.1
70°	154.2	127.3	110.3	99.0	94.8	100.4	130.1	162.7	145.7	141.5	138.6
72.5°	124.5	106.1	96.2	89.1	76.4	65.1	59.4	62.2	69.3	73.6	80.6
75°	87.7	80.6	80.6	72.1	55.2	41.0	32.5	26.9	18.4	12.7	14.1
77.5°	49.5	49.5	50.9	43.9	35.4	26.9	19.8	14.1	7.1	2.8	1.4
80°	33.9	36.8	39.6	35.4	29.7	24.0	17.0	9.9	4.2	0.0	0.0
82.5°	33.9	38.2	41.0	35.4	29.7	22.6	17.0	9.9	4.2	1.4	0.0
85°	7.1	8.5	9.9	11.3	17.0	17.0	12.7	8.5	4.2	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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)