

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: P526746

Luminaire Tested: **GALN-SA1D-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5907 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

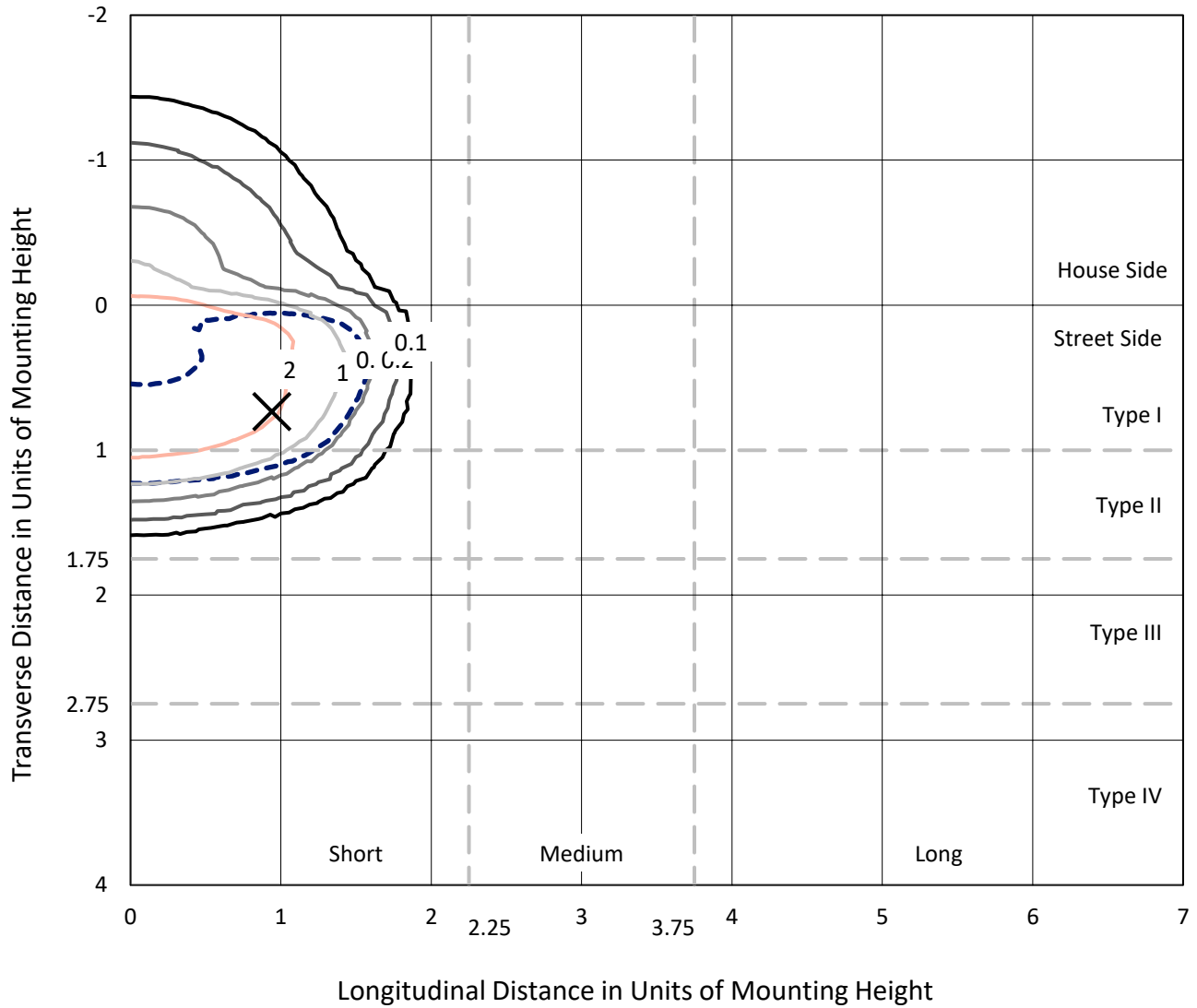
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

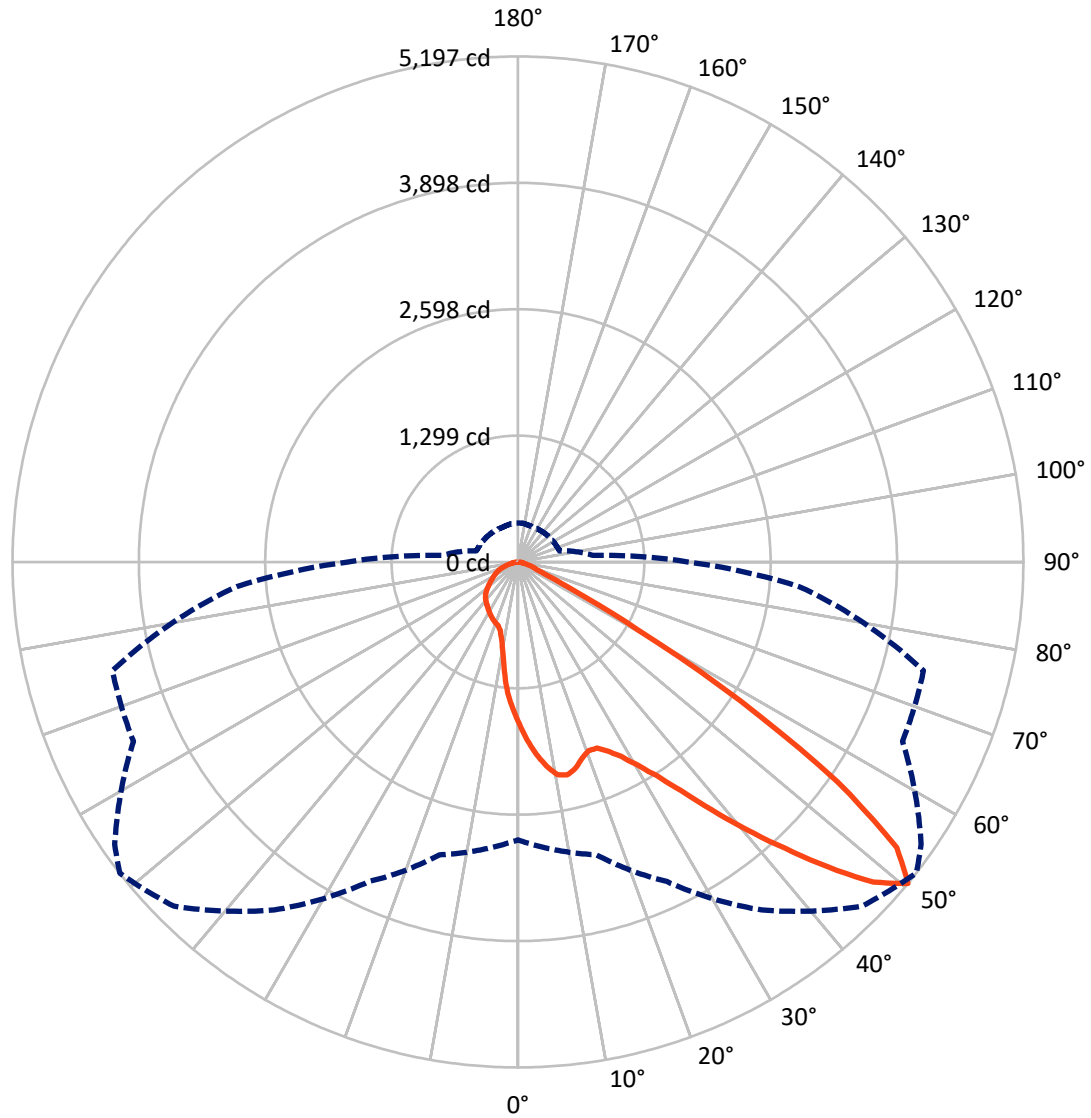
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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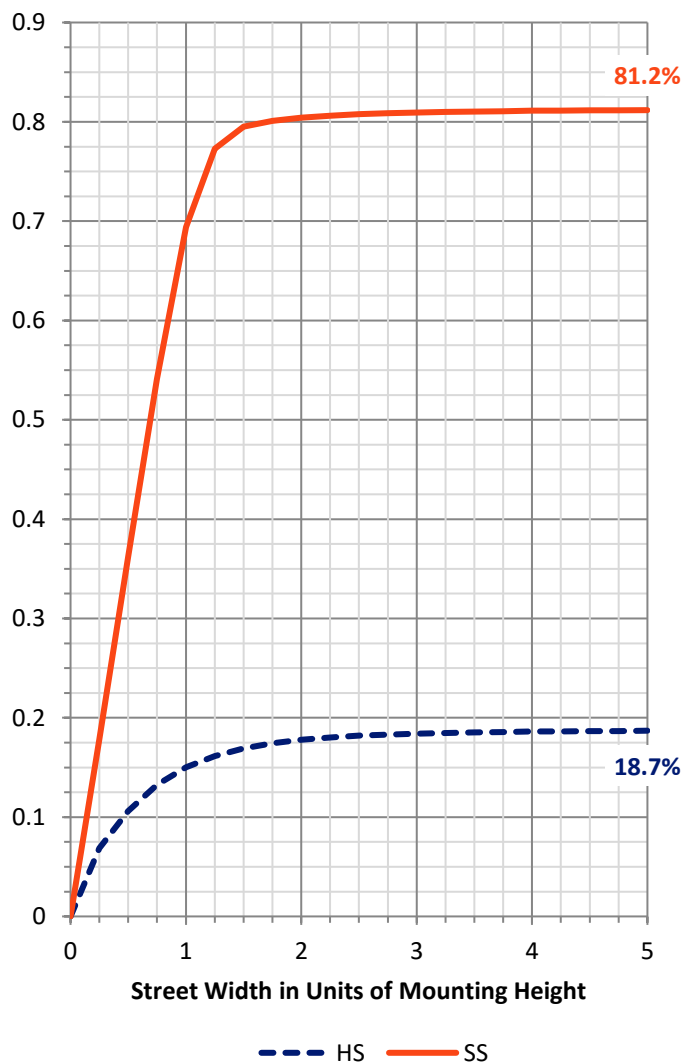
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.4	0.0	1110.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4796.6	0.0	4796.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	5907.0	0.0	5907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	2.6
10°-20°	411.3	7.0
20°-30°	692.9	11.7
30°-40°	1162.7	19.7
40°-50°	1778.7	30.1
50°-60°	1296.8	22.0
60°-70°	288.6	4.9
70°-80°	104.1	1.8
80°-90°	18.4	0.3
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°	5907.0	100.0
0°-180°	5907.0	100.0

Coefficient of Utilization



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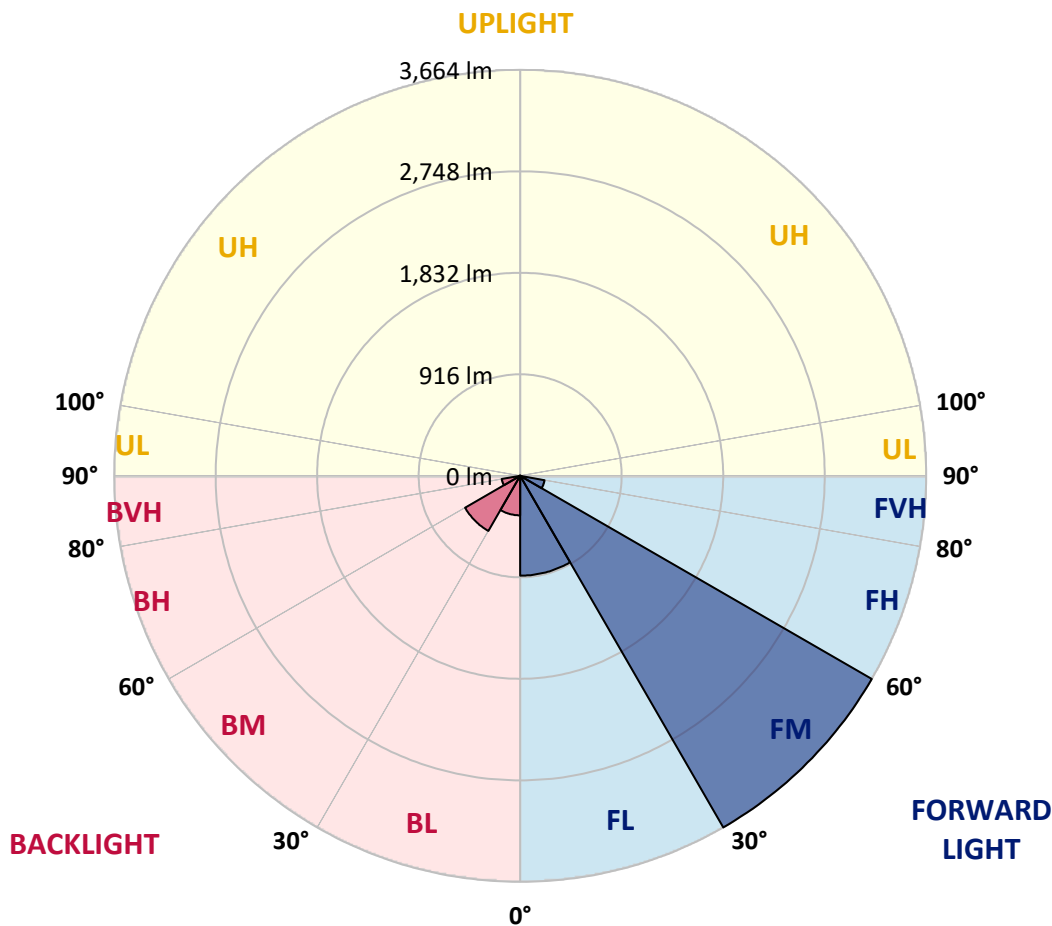
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.0	15.3			
FM (30°-60°)	3663.8	62.0			
FH (60°-80°)	223.5	3.8			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	356.7	6.0	B1/500		
BM (30°-60°)	574.4	9.7	B1/1000		
BH (60°-80°)	169.2	2.9	B1/500		G1/500
BVH (80°-90°)	10.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1960.5	1922.8	1927.1	1900.0	1870.8	1862.3	1832.4	1803.9	1782.5	1737.0	1695.0
5°	2142.8	2131.4	2114.3	2092.9	2070.9	2016.8	1986.1	1950.5	1872.2	1801.8	1732.0
7.5°	2169.1	2167.0	2176.2	2176.2	2184.0	2163.4	2120.0	2095.1	2011.8	1897.2	1767.6
10°	1984.0	1990.4	2035.3	2093.6	2174.8	2231.0	2223.9	2217.5	2126.4	1969.8	1809.6
12.5°	1836.6	1822.4	1848.8	1898.6	2020.3	2156.3	2248.1	2248.8	2225.3	2085.8	1840.2
15°	1753.4	1763.3	1770.4	1793.9	1885.8	2043.1	2204.7	2252.4	2355.6	2167.7	1888.6
17.5°	1806.7	1773.3	1771.9	1777.6	1824.5	1942.7	2124.2	2206.1	2426.8	2273.0	1948.4
20°	1876.5	1875.8	1855.9	1848.8	1848.0	1953.4	2071.6	2182.6	2464.5	2409.7	2008.9
22.5°	1999.0	1999.0	1966.2	1950.5	1917.1	2003.2	2078.7	2154.1	2527.2	2503.7	2038.1
25°	2204.0	2170.5	2114.3	2075.8	2056.6	2087.2	2154.1	2221.8	2582.0	2603.3	2098.6
27.5°	2393.3	2340.7	2312.9	2246.7	2221.1	2203.3	2264.5	2332.8	2646.1	2758.5	2131.4
30°	2608.3	2599.1	2549.2	2463.8	2400.5	2367.7	2423.9	2491.6	2763.5	2917.3	2206.8
32.5°	2992.7	2908.7	2841.1	2736.5	2633.2	2563.5	2619.0	2663.9	2958.6	3083.1	2289.4
35°	3407.8	3380.7	3264.0	3075.3	2917.3	2854.6	2887.4	2920.8	3185.7	3336.6	2428.2
37.5°	3815.7	3778.7	3682.6	3523.8	3331.6	3204.2	3227.7	3266.8	3440.5	3678.3	2597.6
40°	4109.0	4063.4	4015.0	3991.5	3800.7	3626.3	3612.8	3622.8	3785.1	3998.6	2785.6
42.5°	4130.3	4186.6	4201.5	4296.2	4251.3	4108.3	4025.0	4027.1	4113.9	4315.4	2975.7
45°	4085.5	4033.5	4143.8	4402.3	4550.3	4617.2	4477.0	4459.2	4317.5	4499.1	3070.3
47.5°	3614.9	3629.2	3815.7	4224.3	4652.1	4951.1	4918.4	4859.3	4426.5	4492.7	3055.4
50°	2857.5	2943.6	3116.6	3625.6	4367.4	5003.8	5196.7	5060.0	4361.7	4316.1	2903.0
52.5°	1902.9	1938.4	2052.3	2709.4	3511.7	4472.7	4876.4	4907.7	4301.9	4084.8	2710.1
55°	847.1	844.3	1004.5	1415.2	2203.3	3403.5	3984.4	4175.2	4071.9	3849.1	2522.2
57.5°	358.8	370.9	436.4	611.5	1083.5	2053.8	2699.4	2866.7	3131.6	3160.7	1934.9
60°	242.8	244.2	262.0	306.1	453.5	964.6	1415.9	1616.7	1806.0	1793.2	1026.5
62.5°	190.8	195.8	209.3	227.1	269.1	437.8	633.6	745.3	757.4	637.1	389.4
65°	163.0	163.7	177.3	192.2	210.7	254.9	305.4	311.1	314.7	303.3	286.2
67.5°	134.5	136.0	146.6	163.7	180.8	195.1	209.3	216.4	232.8	264.8	260.5
70°	106.8	108.9	118.2	132.4	148.1	156.6	174.4	180.8	195.8	220.7	230.6
72.5°	81.2	81.9	89.7	99.7	113.9	122.4	137.4	144.5	154.5	175.8	185.1
75°	58.4	60.5	66.2	71.2	73.3	79.0	93.3	101.1	115.3	124.6	125.3
77.5°	30.6	32.0	33.5	33.5	40.6	51.3	60.5	64.8	74.7	81.9	78.3
80°	12.1	12.8	16.4	22.1	28.5	37.0	43.4	45.6	54.1	58.4	60.5
82.5°	7.1	7.8	10.7	15.7	20.6	26.3	31.3	33.5	39.2	44.1	45.6
85°	3.6	4.3	6.4	10.0	13.5	16.4	15.7	14.9	14.9	14.2	14.9
87.5°	1.4	1.4	2.1	2.1	2.1	2.8	3.6	3.6	3.6	4.3	4.3
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°	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1667.2	1638.7	1612.4	1564.0	1511.3	1496.4	1435.1	1413.1	1397.4	1378.9	1373.2
5°	1675.8	1638.0	1553.3	1455.8	1378.2	1278.5	1213.0	1142.6	1091.3	1078.5	1074.9
7.5°	1693.6	1628.8	1482.8	1335.5	1176.7	1041.5	938.3	882.7	833.6	830.8	825.8
10°	1713.5	1601.0	1406.0	1174.6	971.7	846.4	784.5	760.3	748.2	745.3	743.9
12.5°	1729.9	1595.3	1319.8	1018.0	826.5	751.0	732.5	730.4	735.4	736.8	739.6
15°	1737.0	1572.5	1215.9	877.7	736.1	708.3	716.2	724.7	728.3	737.5	730.4
17.5°	1750.5	1543.4	1087.8	766.7	685.5	690.5	704.0	714.0	719.7	726.1	716.9
20°	1757.6	1517.0	967.4	700.5	667.7	677.0	695.5	703.3	710.5	713.3	702.6
22.5°	1751.2	1462.9	861.4	647.1	650.7	662.8	679.1	687.7	683.4	672.0	665.6
25°	1734.1	1386.7	751.0	612.9	626.5	647.8	660.6	654.2	646.4	640.0	637.8
27.5°	1733.4	1293.5	671.3	581.6	605.8	635.0	630.7	625.0	628.6	623.6	617.9
30°	1737.0	1203.1	605.8	563.8	590.9	605.1	610.1	604.4	608.7	599.4	602.2
32.5°	1718.5	1114.8	563.1	543.2	573.1	572.4	588.7	593.0	583.0	563.8	566.7
35°	1726.3	1043.6	526.8	533.9	553.1	553.1	565.9	561.0	534.6	523.2	526.1
37.5°	1780.4	973.9	509.0	521.1	533.9	539.6	535.3	514.0	507.6	507.6	509.0
40°	1831.7	914.1	498.3	518.2	516.1	519.7	488.3	490.5	490.5	491.2	487.6
42.5°	1877.2	873.5	489.8	501.2	504.7	486.2	467.0	464.9	469.8	469.1	466.3
45°	1893.6	840.0	477.7	481.9	484.8	454.2	444.9	440.7	446.3	448.5	451.3
47.5°	1831.0	812.3	464.1	455.6	449.9	430.0	417.9	410.0	417.2	429.3	432.1
50°	1750.5	775.9	442.8	426.4	414.3	405.8	397.2	389.4	394.4	402.9	400.8
52.5°	1631.6	719.0	415.7	398.7	378.0	380.1	372.3	368.0	370.9	370.9	368.8
55°	1462.2	590.9	370.2	358.1	341.0	346.7	348.1	342.4	336.7	341.7	337.4
57.5°	998.1	417.2	330.3	330.3	313.2	321.1	320.3	306.8	293.3	294.7	291.9
60°	577.3	332.4	304.7	301.8	284.0	290.4	291.9	282.6	262.0	263.4	260.5
62.5°	328.2	284.0	266.2	262.0	258.4	264.1	264.1	252.0	234.2	235.6	232.8
65°	279.1	263.4	237.8	237.1	235.6	237.1	231.4	218.5	202.9	196.5	197.2
67.5°	253.4	243.5	218.5	212.1	207.9	207.2	196.5	184.4	177.3	171.6	170.9
70°	222.1	214.3	195.8	187.2	183.0	173.0	162.3	154.5	144.5	141.7	144.5
72.5°	175.8	175.1	168.0	158.7	149.5	141.7	132.4	121.7	112.5	110.3	105.4
75°	121.7	123.2	124.6	123.2	115.3	105.4	94.7	86.1	74.7	68.3	66.9
77.5°	79.7	81.9	84.0	81.2	76.2	66.9	59.8	49.1	40.6	35.6	34.9
80°	58.4	61.2	62.6	60.5	54.8	47.7	39.9	31.3	24.9	20.6	20.6
82.5°	44.8	47.7	49.1	45.6	39.9	34.2	28.5	22.1	17.1	13.5	12.8
85°	15.7	14.9	17.8	18.5	22.1	20.6	17.1	12.8	10.0	7.1	6.4
87.5°	4.3	4.3	5.0	5.0	4.3	3.6	3.6	3.6	2.8	2.1	2.1
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)