

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: P526928

Luminaire Tested: **GALN-SA1D-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526928
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-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 5613 lumens
Efficiency: N/A
Efficacy: 86.4 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

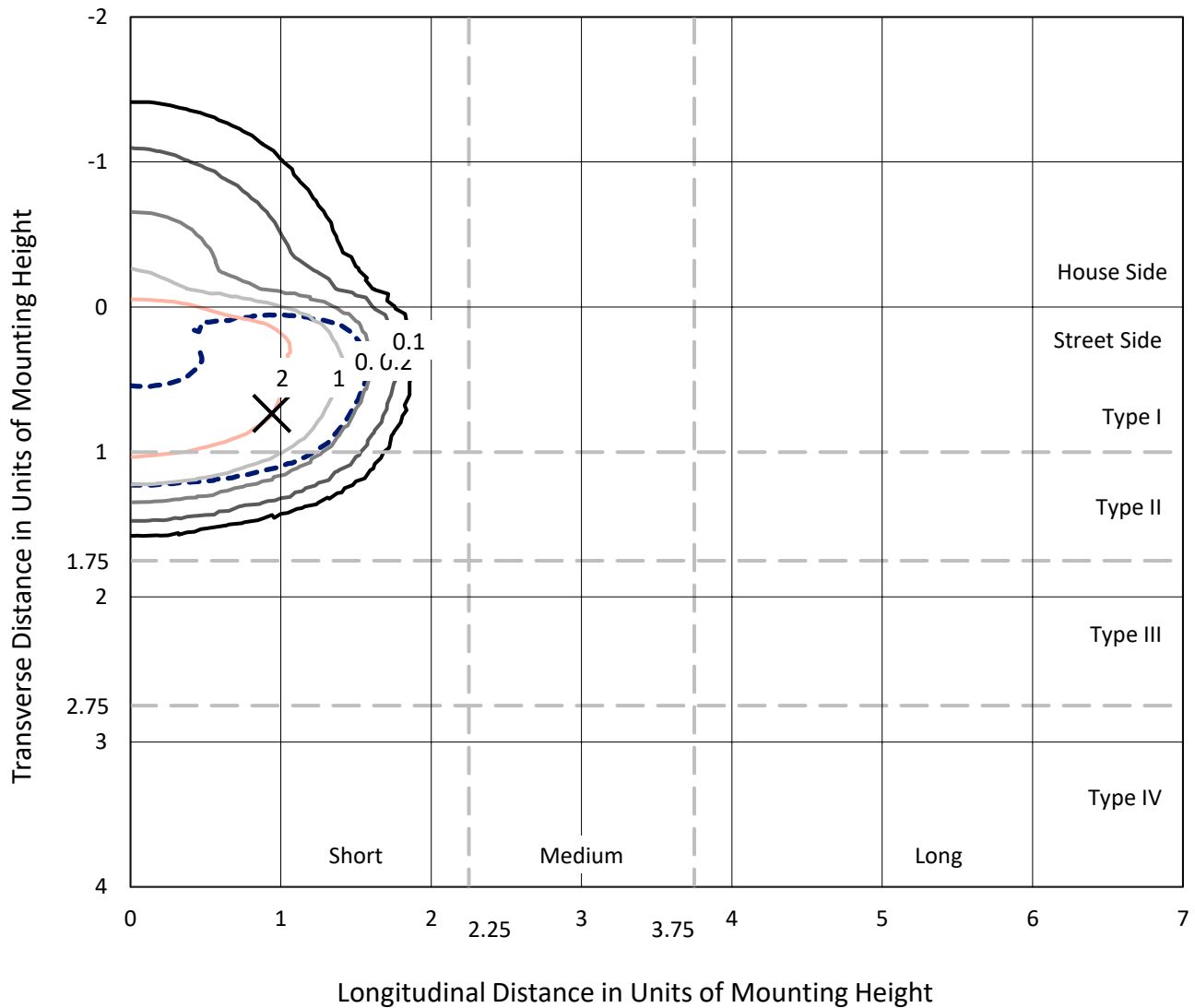


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

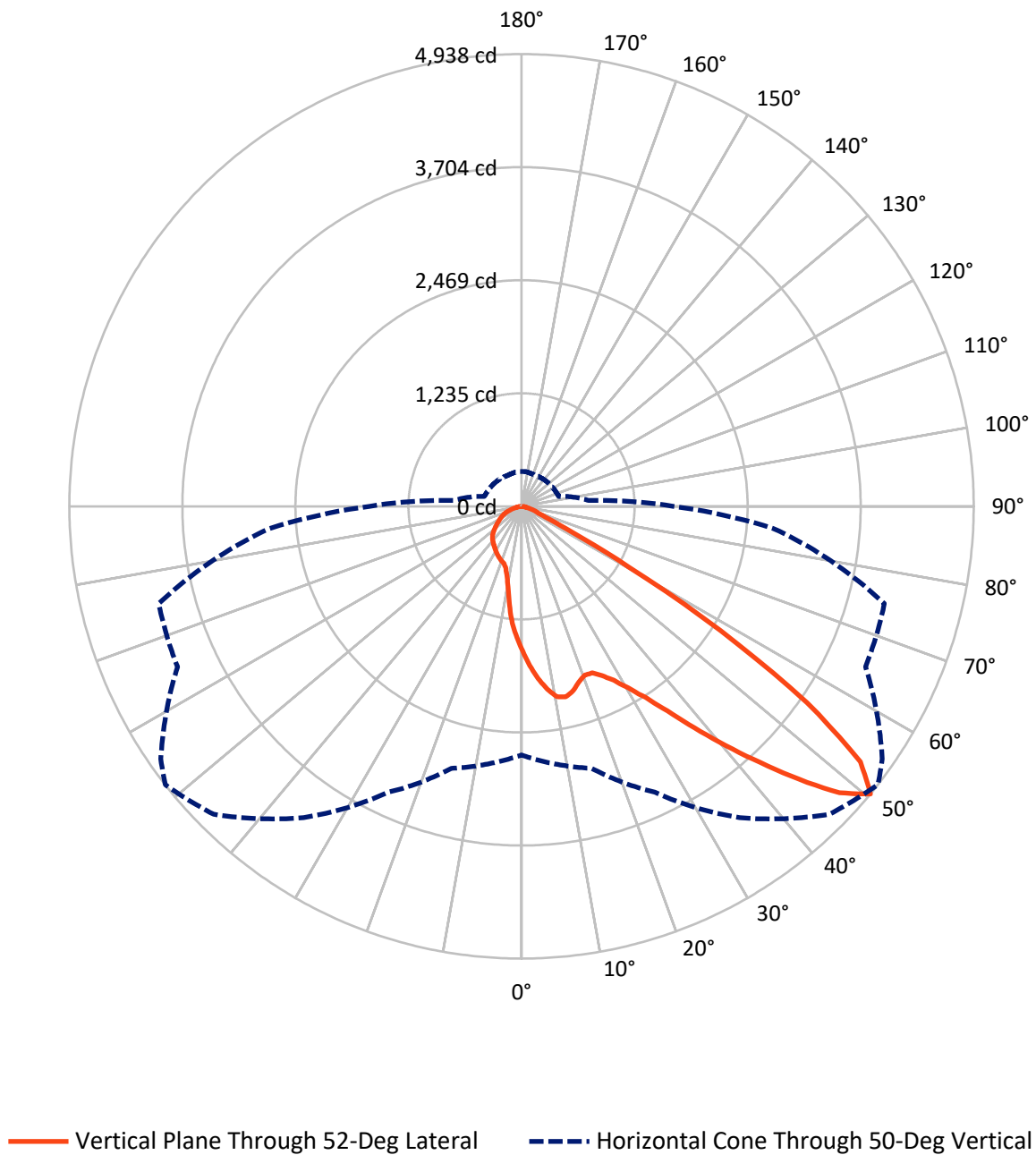


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1055.1	0.0	1055.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4557.9	0.0	4557.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	5613.0	0.0	5613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	2.6
10°-20°	390.9	7.0
20°-30°	658.4	11.7
30°-40°	1104.9	19.7
40°-50°	1690.1	30.1
50°-60°	1232.3	22.0
60°-70°	274.2	4.9
70°-80°	98.9	1.8
80°-90°	17.5	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°	5613.0	100.0
0°-180°	5613.0	100.0

Coefficient of Utilization



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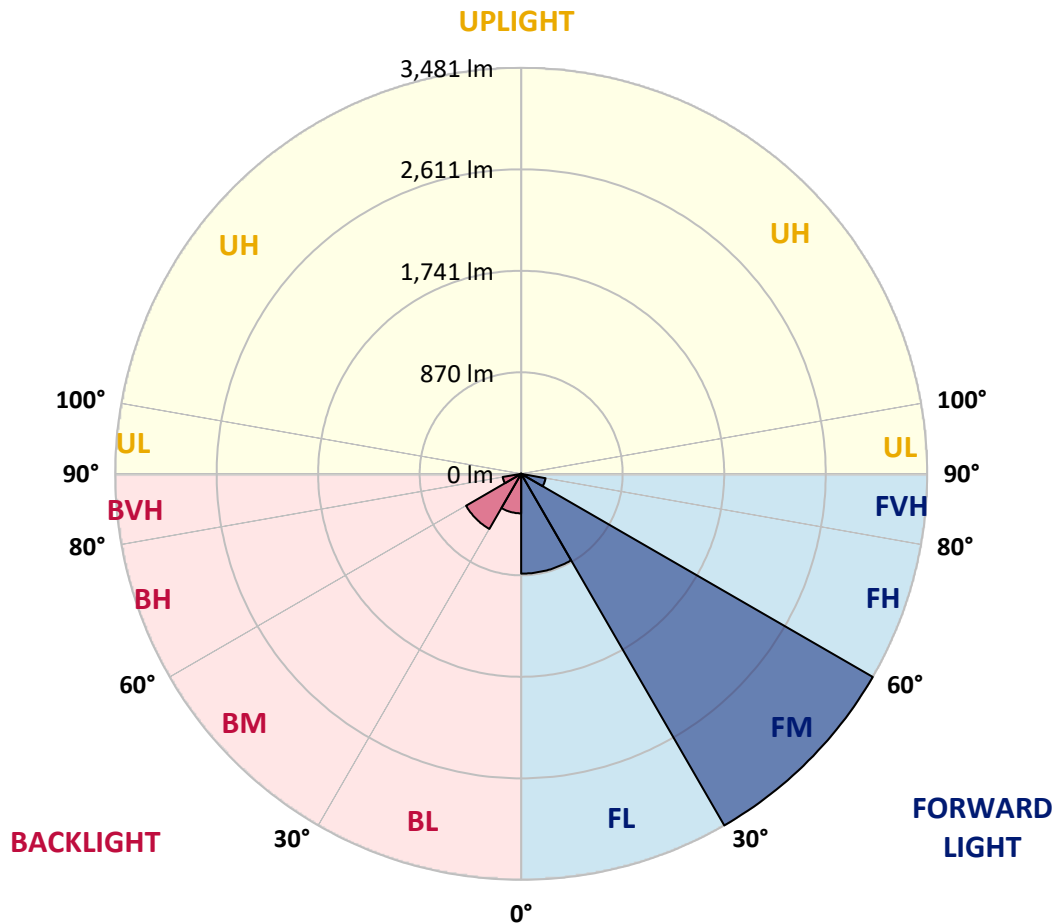
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.2	15.3			
FM	(30°-60°)	3481.5	62.0			
FH	(60°-80°)	212.4	3.8			G0/660
FVH	(80°-90°)	7.8	0.1			G0/10
BL	(0°-30°)	338.9	6.0	B1/500		
BM	(30°-60°)	545.8	9.7	B1/1000		
BH	(60°-80°)	160.7	2.9	B1/500		G1/500
BVH	(80°-90°)	9.7	0.2			G0/10
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°	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2
2.5°	1862.9	1827.1	1831.1	1805.4	1777.7	1769.6	1741.2	1714.1	1693.8	1650.5	1610.6
5°	2036.1	2025.3	2009.1	1988.8	1967.8	1916.4	1887.3	1853.5	1779.1	1712.1	1645.8
7.5°	2061.1	2059.1	2067.9	2067.9	2075.3	2055.7	2014.5	1990.8	1911.6	1802.7	1679.6
10°	1885.3	1891.3	1934.0	1989.4	2066.5	2120.0	2113.2	2107.1	2020.5	1871.7	1719.5
12.5°	1745.2	1731.7	1756.7	1804.1	1919.8	2049.0	2136.2	2136.9	2114.6	1982.0	1748.6
15°	1666.1	1675.6	1682.3	1704.6	1791.9	1941.4	2095.0	2140.3	2238.4	2059.8	1794.6
17.5°	1716.8	1685.0	1683.7	1689.1	1733.7	1846.0	2018.5	2096.3	2306.0	2159.9	1851.4
20°	1783.1	1782.4	1763.5	1756.7	1756.1	1856.2	1968.5	2074.0	2341.9	2289.8	1908.9
22.5°	1899.5	1899.5	1868.3	1853.5	1821.7	1903.5	1975.2	2046.9	2401.4	2379.1	1936.7
25°	2094.3	2062.5	2009.1	1972.5	1954.3	1983.3	2046.9	2111.2	2453.5	2473.8	1994.2
27.5°	2274.2	2224.2	2197.8	2134.9	2110.5	2093.6	2151.8	2216.7	2514.4	2621.2	2025.3
30°	2478.5	2469.7	2422.4	2341.2	2281.0	2249.9	2303.3	2367.6	2626.0	2772.1	2097.0
32.5°	2843.8	2764.0	2699.7	2600.3	2502.2	2435.9	2488.7	2531.3	2811.3	2929.7	2175.5
35°	3238.2	3212.5	3101.5	2922.3	2772.1	2712.6	2743.7	2775.5	3027.1	3170.5	2307.4
37.5°	3625.8	3590.6	3499.3	3348.4	3165.8	3044.7	3067.0	3104.2	3269.3	3495.2	2468.4
40°	3904.5	3861.2	3815.2	3792.8	3611.6	3445.8	3433.0	3442.4	3596.7	3799.6	2646.9
42.5°	3924.8	3978.2	3992.4	4082.4	4039.7	3903.8	3824.6	3826.7	3909.2	4100.6	2827.6
45°	3882.1	3832.8	3937.6	4183.2	4323.9	4387.4	4254.2	4237.3	4102.7	4275.2	2917.5
47.5°	3435.0	3448.5	3625.8	4014.0	4420.6	4704.7	4673.6	4617.4	4206.2	4269.1	2903.3
50°	2715.3	2797.1	2961.5	3445.1	4150.0	4754.8	4938.1	4808.2	4144.6	4101.3	2758.6
52.5°	1808.1	1842.0	1950.2	2574.6	3336.9	4250.1	4633.7	4663.4	4087.8	3881.5	2575.2
55°	805.0	802.3	954.5	1344.8	2093.6	3234.1	3786.1	3967.4	3869.3	3657.6	2396.7
57.5°	340.9	352.4	414.7	581.1	1029.6	1951.6	2565.1	2724.1	2975.7	3003.4	1838.6
60°	230.7	232.0	248.9	290.9	430.9	916.6	1345.5	1536.2	1716.1	1704.0	975.4
62.5°	181.3	186.0	198.9	215.8	255.7	416.0	602.0	708.2	719.7	605.4	370.0
65°	154.9	155.6	168.4	182.6	200.2	242.2	290.2	295.6	299.0	288.2	271.9
67.5°	127.8	129.2	139.3	155.6	171.8	185.3	198.9	205.6	221.2	251.6	247.6
70°	101.5	103.5	112.3	125.8	140.7	148.8	165.7	171.8	186.0	209.7	219.2
72.5°	77.1	77.8	85.2	94.7	108.2	116.3	130.6	137.3	146.8	167.1	175.9
75°	55.5	57.5	62.9	67.6	69.7	75.1	88.6	96.1	109.6	118.4	119.1
77.5°	29.1	30.4	31.8	31.8	38.6	48.7	57.5	61.6	71.0	77.8	74.4
80°	11.5	12.2	15.6	21.0	27.1	35.2	41.3	43.3	51.4	55.5	57.5
82.5°	6.8	7.4	10.1	14.9	19.6	25.0	29.8	31.8	37.2	41.9	43.3
85°	3.4	4.1	6.1	9.5	12.9	15.6	14.9	14.2	14.2	13.5	14.2
87.5°	1.4	1.4	2.0	2.0	2.0	2.7	3.4	3.4	3.4	4.1	4.1
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°	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2	1582.2
2.5°	1584.2	1557.2	1532.2	1486.2	1436.1	1421.9	1363.7	1342.7	1327.9	1310.3	1304.9
5°	1592.4	1556.5	1476.0	1383.3	1309.6	1214.9	1152.7	1085.7	1037.0	1024.8	1021.4
7.5°	1609.3	1547.7	1409.0	1269.0	1118.2	989.6	891.6	838.8	792.1	789.4	784.7
10°	1628.2	1521.3	1336.0	1116.1	923.4	804.3	745.4	722.4	710.9	708.2	706.9
12.5°	1643.8	1515.9	1254.1	967.3	785.4	713.7	696.1	694.0	698.8	700.1	702.8
15°	1650.5	1494.3	1155.4	834.1	699.4	673.1	680.5	688.6	692.0	700.8	694.0
17.5°	1663.4	1466.5	1033.6	728.5	651.4	656.2	669.0	678.5	683.9	690.0	681.2
20°	1670.1	1441.5	919.3	665.6	634.5	643.3	660.9	668.3	675.1	677.8	667.7
22.5°	1664.1	1390.1	818.5	614.9	618.3	629.8	645.3	653.4	649.4	638.6	632.5
25°	1647.8	1317.7	713.7	582.4	595.3	615.6	627.7	621.7	614.2	608.1	606.1
27.5°	1647.2	1229.1	637.9	552.7	575.7	603.4	599.3	593.9	597.3	592.6	587.2
30°	1650.5	1143.2	575.7	535.7	561.5	575.0	579.7	574.3	578.4	569.6	572.3
32.5°	1632.9	1059.3	535.1	516.1	544.5	543.9	559.4	563.5	554.0	535.7	538.5
35°	1640.4	991.7	500.6	507.3	525.6	525.6	537.8	533.0	508.0	497.2	499.9
37.5°	1691.8	925.4	483.7	495.2	507.3	512.7	508.7	488.4	482.3	482.3	483.7
40°	1740.5	868.6	473.5	492.5	490.4	493.8	464.0	466.1	466.1	466.7	463.4
42.5°	1783.8	830.0	465.4	476.2	479.6	462.0	443.7	441.7	446.5	445.8	443.1
45°	1799.4	798.2	453.9	458.0	460.7	431.6	422.8	418.7	424.1	426.2	428.9
47.5°	1739.8	771.8	441.0	432.9	427.5	408.6	397.1	389.6	396.4	407.9	410.6
50°	1663.4	737.3	420.8	405.2	393.7	385.6	377.5	370.0	374.8	382.9	380.8
52.5°	1550.4	683.2	395.0	378.8	359.2	361.2	353.8	349.7	352.4	352.4	350.4
55°	1389.4	561.5	351.8	340.3	324.0	329.4	330.8	325.4	320.0	324.7	320.6
57.5°	948.4	396.4	313.9	313.9	297.6	305.1	304.4	291.5	278.7	280.0	277.3
60°	548.6	315.9	289.5	286.8	269.9	276.0	277.3	268.5	248.9	250.3	247.6
62.5°	311.8	269.9	253.0	248.9	245.6	251.0	251.0	239.5	222.6	223.9	221.2
65°	265.2	250.3	225.9	225.3	223.9	225.3	219.8	207.7	192.8	186.7	187.4
67.5°	240.8	231.3	207.7	201.6	197.5	196.8	186.7	175.2	168.4	163.0	162.3
70°	211.1	203.6	186.0	177.9	173.8	164.4	154.2	146.8	137.3	134.6	137.3
72.5°	167.1	166.4	159.6	150.8	142.1	134.6	125.8	115.7	106.9	104.8	100.1
75°	115.7	117.0	118.4	117.0	109.6	100.1	90.0	81.9	71.0	64.9	63.6
77.5°	75.8	77.8	79.8	77.1	72.4	63.6	56.8	46.7	38.6	33.8	33.1
80°	55.5	58.2	59.5	57.5	52.1	45.3	37.9	29.8	23.7	19.6	19.6
82.5°	42.6	45.3	46.7	43.3	37.9	32.5	27.1	21.0	16.2	12.9	12.2
85°	14.9	14.2	16.9	17.6	21.0	19.6	16.2	12.2	9.5	6.8	6.1
87.5°	4.1	4.1	4.7	4.7	4.1	3.4	3.4	3.4	2.7	2.0	2.0
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)