

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: P526538

Luminaire Tested: **GALN-SA1C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526538
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-SA1C-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 5846 lumens
Efficiency: N/A
Efficacy: 102.6 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

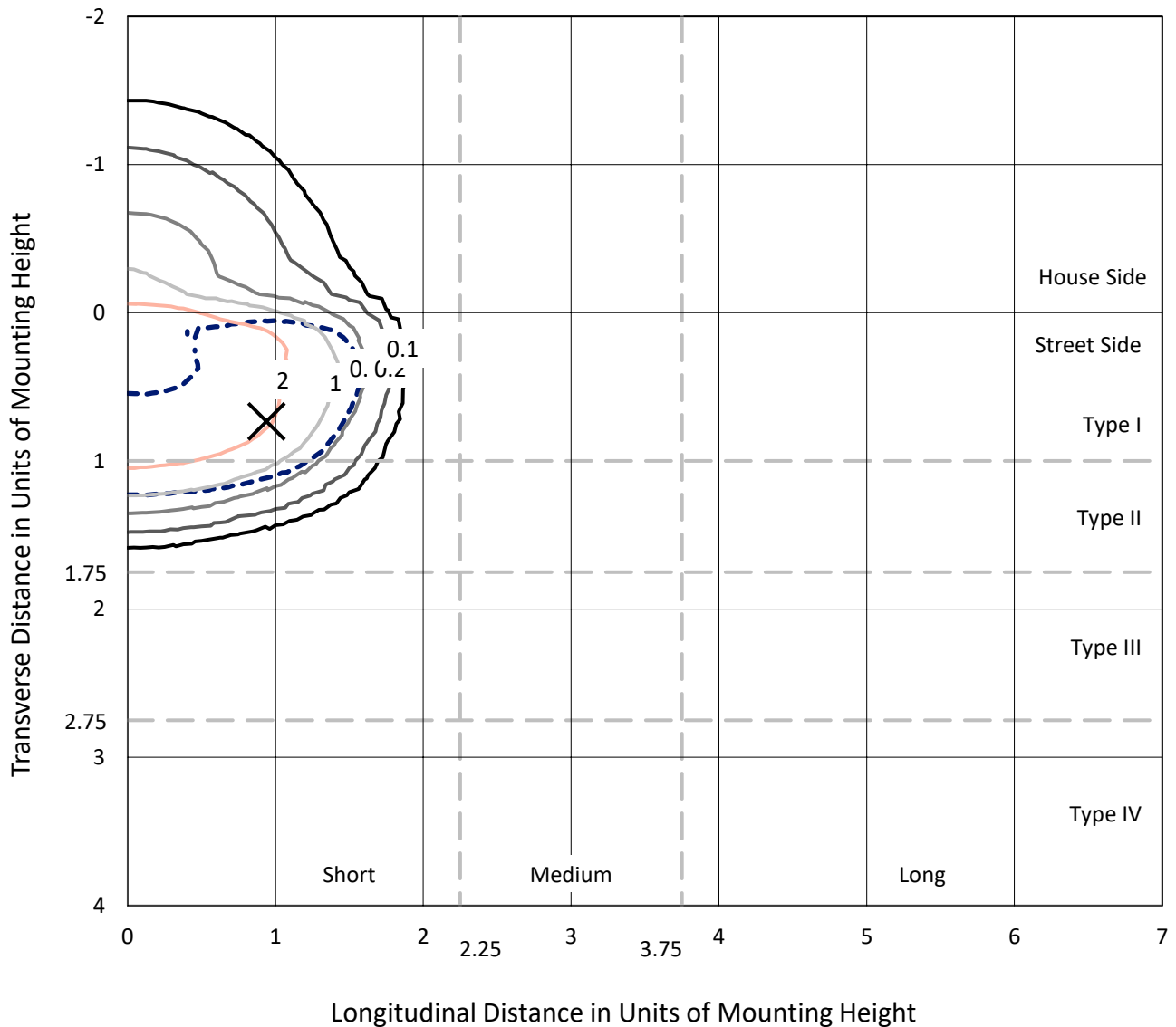
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

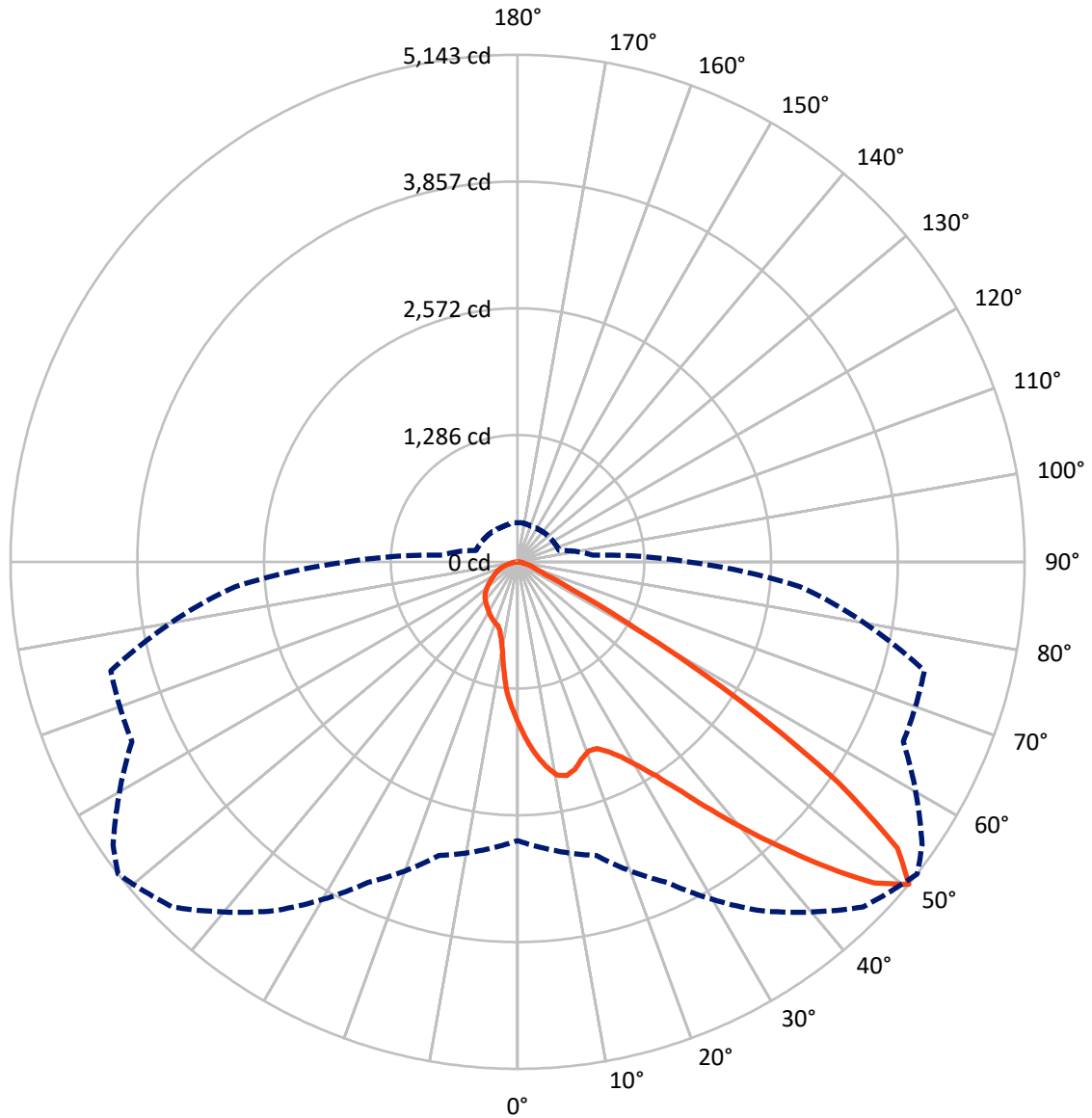
× Max cd
 - - - 1/2 Max cd



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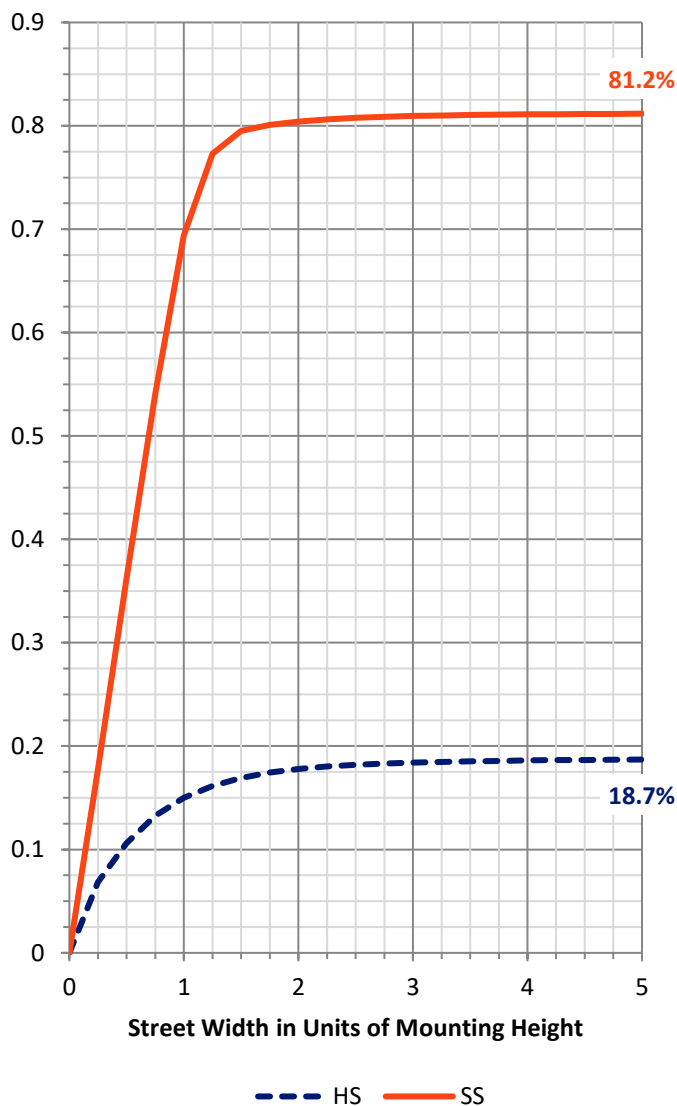
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.9	0.0	1098.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4747.1	0.0	4747.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	5846.0	0.0	5846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	2.6
10°-20°	407.1	7.0
20°-30°	685.7	11.7
30°-40°	1150.7	19.7
40°-50°	1760.3	30.1
50°-60°	1283.4	22.0
60°-70°	285.6	4.9
70°-80°	103.0	1.8
80°-90°	18.2	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°	5846.0	100.0
0°-180°	5846.0	100.0

Coefficient of Utilization

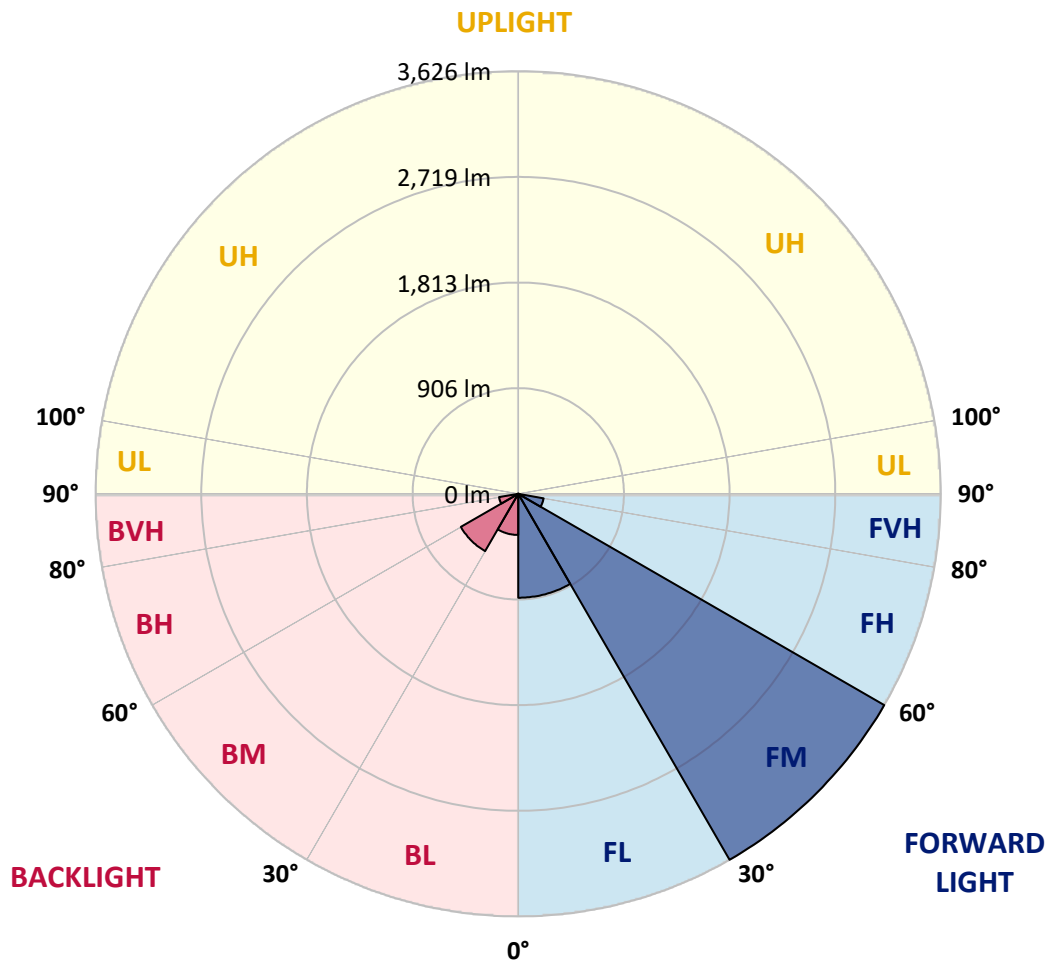


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.7	15.3			
FM (30°-60°)	3626.0	62.0			
FH (60°-80°)	221.2	3.8			G0/660
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	353.0	6.0	B1/500		
BM (30°-60°)	568.4	9.7	B1/1000		
BH (60°-80°)	167.4	2.9	B1/500		G1/500
BVH (80°-90°)	10.1	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°	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9
2.5°	1940.3	1902.9	1907.2	1880.4	1851.5	1843.0	1813.5	1785.3	1764.1	1719.0	1677.5
5°	2120.6	2109.4	2092.4	2071.3	2049.5	1995.9	1965.6	1930.4	1852.9	1783.2	1714.1
7.5°	2146.7	2144.6	2153.7	2153.7	2161.5	2141.1	2098.1	2073.4	1991.0	1877.6	1749.3
10°	1963.5	1969.9	2014.2	2072.0	2152.3	2208.0	2200.9	2194.6	2104.4	1949.4	1790.9
12.5°	1817.7	1803.6	1829.7	1879.0	1999.4	2134.0	2224.9	2225.6	2202.4	2064.3	1821.2
15°	1735.3	1745.1	1752.2	1775.4	1866.3	2022.0	2181.9	2229.1	2331.3	2145.3	1869.1
17.5°	1788.1	1755.0	1753.6	1759.2	1805.7	1922.7	2102.3	2183.3	2401.7	2249.6	1928.3
20°	1857.1	1856.4	1836.7	1829.7	1829.0	1933.2	2050.2	2160.1	2439.1	2384.8	1988.2
22.5°	1978.3	1978.3	1945.9	1930.4	1897.3	1982.5	2057.2	2131.9	2501.1	2477.8	2017.1
25°	2181.2	2148.1	2092.4	2054.4	2035.4	2065.7	2131.9	2198.8	2555.3	2576.5	2076.9
27.5°	2368.6	2316.5	2289.0	2223.5	2198.1	2180.5	2241.1	2308.7	2618.7	2730.0	2109.4
30°	2581.4	2572.2	2522.9	2438.4	2375.7	2343.3	2398.9	2465.8	2735.0	2887.2	2184.0
32.5°	2961.8	2878.7	2811.8	2708.2	2606.0	2537.0	2592.0	2636.3	2928.0	3051.3	2265.8
35°	3372.6	3345.8	3230.3	3043.6	2887.2	2825.2	2857.6	2890.7	3152.8	3302.1	2403.1
37.5°	3776.3	3739.6	3644.5	3487.4	3297.2	3171.1	3194.3	3233.1	3405.0	3640.3	2570.8
40°	4066.5	4021.4	3973.5	3950.3	3761.5	3588.9	3575.5	3585.3	3746.0	3957.3	2756.8
42.5°	4087.7	4143.3	4158.1	4251.8	4207.4	4065.8	3983.4	3985.5	4071.5	4270.8	2944.9
45°	4043.3	3991.9	4101.1	4356.8	4503.3	4569.6	4430.8	4413.2	4273.0	4452.6	3038.6
47.5°	3577.6	3591.7	3776.3	4180.7	4604.1	4900.0	4867.6	4809.1	4380.8	4446.3	3023.8
50°	2828.0	2913.2	3084.4	3588.2	4322.3	4952.1	5143.1	5007.8	4316.6	4271.6	2873.1
52.5°	1883.2	1918.4	2031.2	2681.4	3475.4	4426.5	4826.0	4857.0	4257.5	4042.6	2682.1
55°	838.4	835.6	994.1	1400.6	2180.5	3368.3	3943.2	4132.1	4029.9	3809.4	2496.1
57.5°	355.1	367.1	431.9	605.2	1072.3	2032.6	2671.6	2837.1	3099.2	3128.1	1914.9
60°	240.2	241.7	259.3	302.9	448.8	954.6	1401.3	1600.0	1787.4	1774.7	1015.9
62.5°	188.8	193.7	207.1	224.7	266.3	433.3	627.0	737.6	749.6	630.6	385.4
65°	161.3	162.0	175.4	190.2	208.5	252.2	302.2	307.9	311.4	300.1	283.2
67.5°	133.2	134.6	145.1	162.0	179.0	193.0	207.1	214.2	230.4	262.1	257.9
70°	105.7	107.8	117.0	131.0	146.5	155.0	172.6	179.0	193.7	218.4	228.3
72.5°	80.3	81.0	88.8	98.6	112.7	121.2	136.0	143.0	152.9	174.0	183.2
75°	57.8	59.9	65.5	70.5	72.6	78.2	92.3	100.0	114.1	123.3	124.0
77.5°	30.3	31.7	33.1	33.1	40.2	50.7	59.9	64.1	74.0	81.0	77.5
80°	12.0	12.7	16.2	21.8	28.2	36.6	43.0	45.1	53.5	57.8	59.9
82.5°	7.0	7.7	10.6	15.5	20.4	26.1	31.0	33.1	38.7	43.7	45.1
85°	3.5	4.2	6.3	9.9	13.4	16.2	15.5	14.8	14.8	14.1	14.8
87.5°	1.4	1.4	2.1	2.1	2.1	2.8	3.5	3.5	3.5	4.2	4.2
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°	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9	1647.9
2.5°	1650.0	1621.8	1595.8	1547.8	1495.7	1480.9	1420.3	1398.5	1383.0	1364.7	1359.0
5°	1658.5	1621.1	1537.3	1440.8	1364.0	1265.3	1200.5	1130.8	1080.0	1067.4	1063.8
7.5°	1676.1	1612.0	1467.5	1321.7	1164.6	1030.7	928.6	873.6	825.0	822.2	817.3
10°	1695.8	1584.5	1391.4	1162.5	961.7	837.7	776.4	752.4	740.5	737.6	736.2
12.5°	1712.0	1578.8	1306.2	1007.5	818.0	743.3	725.0	722.8	727.8	729.2	732.0
15°	1719.0	1556.3	1203.3	868.7	728.5	701.0	708.8	717.2	720.7	729.9	722.8
17.5°	1732.4	1527.4	1076.5	758.8	678.5	683.4	696.8	706.6	712.3	718.6	709.5
20°	1739.5	1501.3	957.5	693.3	660.8	670.0	688.3	696.1	703.1	705.9	695.4
22.5°	1733.1	1447.8	852.5	640.4	643.9	655.9	672.1	680.6	676.3	665.1	658.7
25°	1716.2	1372.4	743.3	606.6	620.0	641.1	653.8	647.5	639.7	633.4	631.3
27.5°	1715.5	1280.1	664.4	575.6	599.6	628.4	624.2	618.6	622.1	617.2	611.5
30°	1719.0	1190.7	599.6	558.0	584.8	598.8	603.8	598.1	602.4	593.2	596.0
32.5°	1700.7	1103.3	557.3	537.6	567.1	566.4	582.6	586.9	577.0	558.0	560.8
35°	1708.5	1032.8	521.4	528.4	547.4	547.4	560.1	555.2	529.1	517.8	520.6
37.5°	1762.0	963.8	503.7	515.7	528.4	534.0	529.8	508.7	502.3	502.3	503.7
40°	1812.7	904.6	493.2	512.9	510.8	514.3	483.3	485.4	485.4	486.1	482.6
42.5°	1857.8	864.5	484.7	496.0	499.5	481.2	462.2	460.1	465.0	464.3	461.5
45°	1874.0	831.3	472.7	477.0	479.8	449.5	440.3	436.1	441.7	443.9	446.7
47.5°	1812.0	803.9	459.4	450.9	445.3	425.5	413.6	405.8	412.9	424.8	427.6
50°	1732.4	767.9	438.2	422.0	410.0	401.6	393.1	385.4	390.3	398.8	396.6
52.5°	1614.8	711.6	411.4	394.5	374.1	376.2	368.5	364.2	367.1	367.1	364.9
55°	1447.1	584.8	366.4	354.4	337.5	343.1	344.5	338.9	333.2	338.2	333.9
57.5°	987.7	412.9	326.9	326.9	310.0	317.7	317.0	303.7	290.3	291.7	288.9
60°	571.4	329.0	301.5	298.7	281.1	287.4	288.9	279.7	259.3	260.7	257.9
62.5°	324.8	281.1	263.5	259.3	255.7	261.4	261.4	249.4	231.8	233.2	230.4
65°	276.2	260.7	235.3	234.6	233.2	234.6	229.0	216.3	200.8	194.4	195.2
67.5°	250.8	240.9	216.3	209.9	205.7	205.0	194.4	182.5	175.4	169.8	169.1
70°	219.8	212.1	193.7	185.3	181.1	171.2	160.6	152.9	143.0	140.2	143.0
72.5°	174.0	173.3	166.3	157.1	148.0	140.2	131.0	120.5	111.3	109.2	104.3
75°	120.5	121.9	123.3	121.9	114.1	104.3	93.7	85.2	74.0	67.6	66.2
77.5°	78.9	81.0	83.1	80.3	75.4	66.2	59.2	48.6	40.2	35.2	34.5
80°	57.8	60.6	62.0	59.9	54.2	47.2	39.5	31.0	24.7	20.4	20.4
82.5°	44.4	47.2	48.6	45.1	39.5	33.8	28.2	21.8	16.9	13.4	12.7
85°	15.5	14.8	17.6	18.3	21.8	20.4	16.9	12.7	9.9	7.0	6.3
87.5°	4.2	4.2	4.9	4.9	4.2	3.5	3.5	3.5	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)