

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: P527491

Luminaire Tested: **GALN-SA2C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7831 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

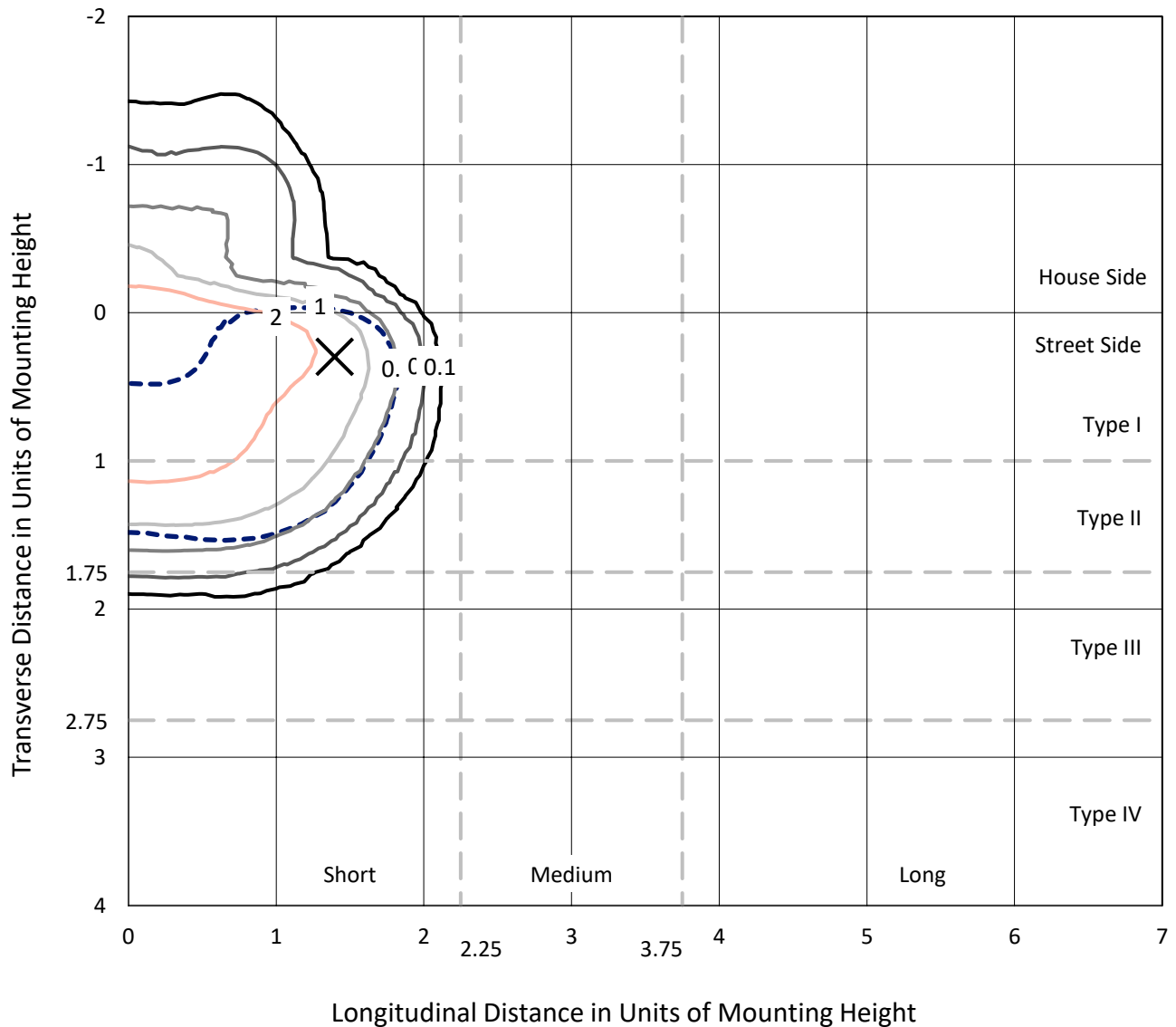
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

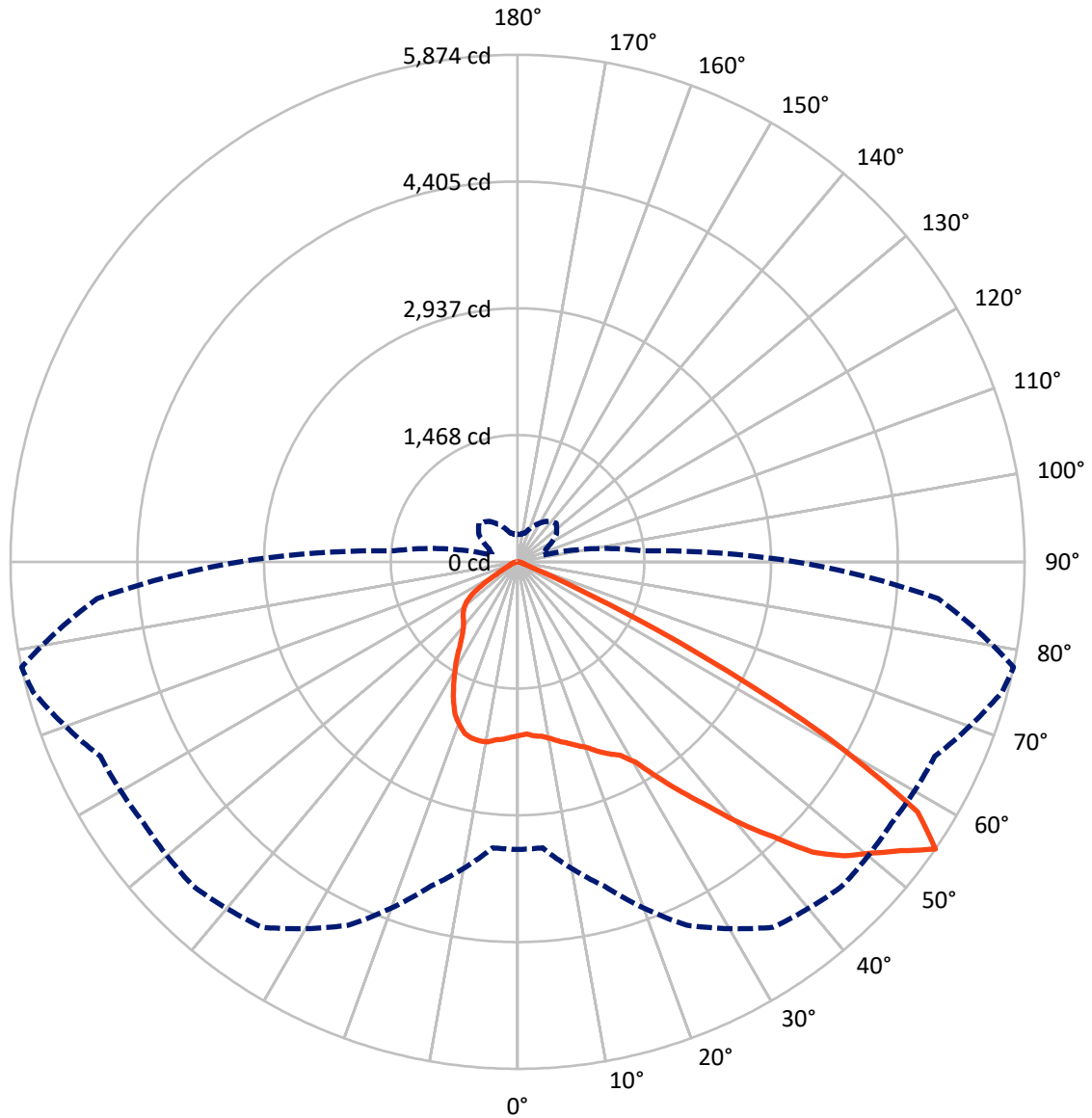
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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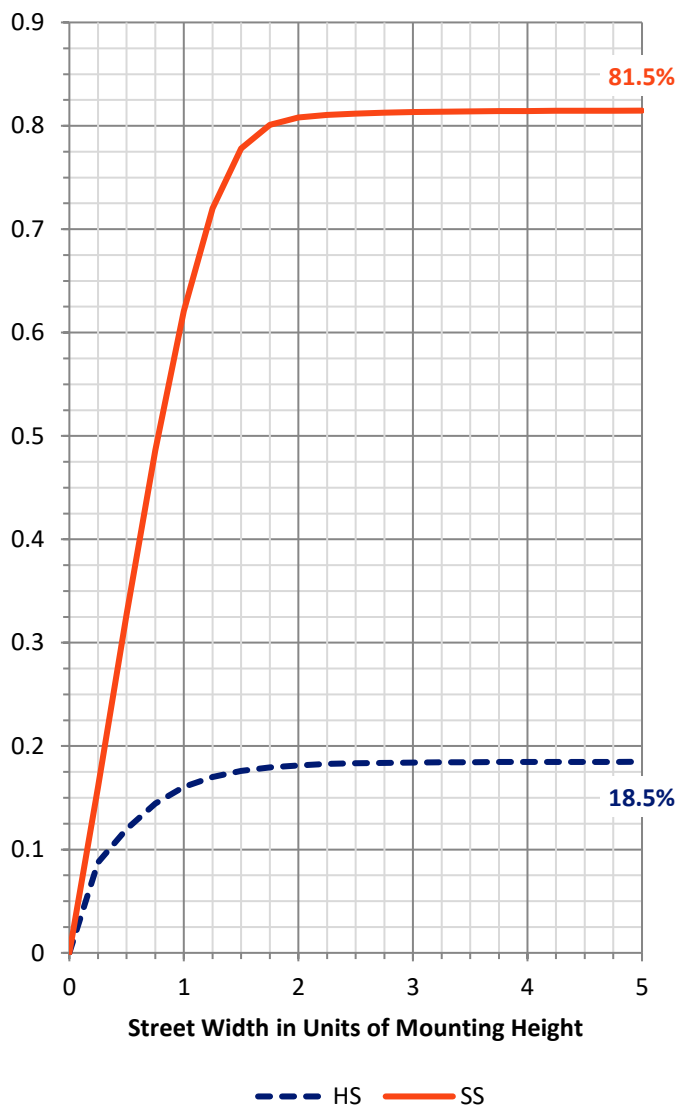
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1454.5	0.0	1454.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6376.5	0.0	6376.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	7831.0	0.0	7831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	2.3
10°-20°	475.1	6.1
20°-30°	832.8	10.6
30°-40°	1373.2	17.5
40°-50°	1998.2	25.5
50°-60°	2264.1	28.9
60°-70°	647.3	8.3
70°-80°	50.3	0.6
80°-90°	10.5	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°	7831.0	100.0
0°-180°	7831.0	100.0

Coefficient of Utilization

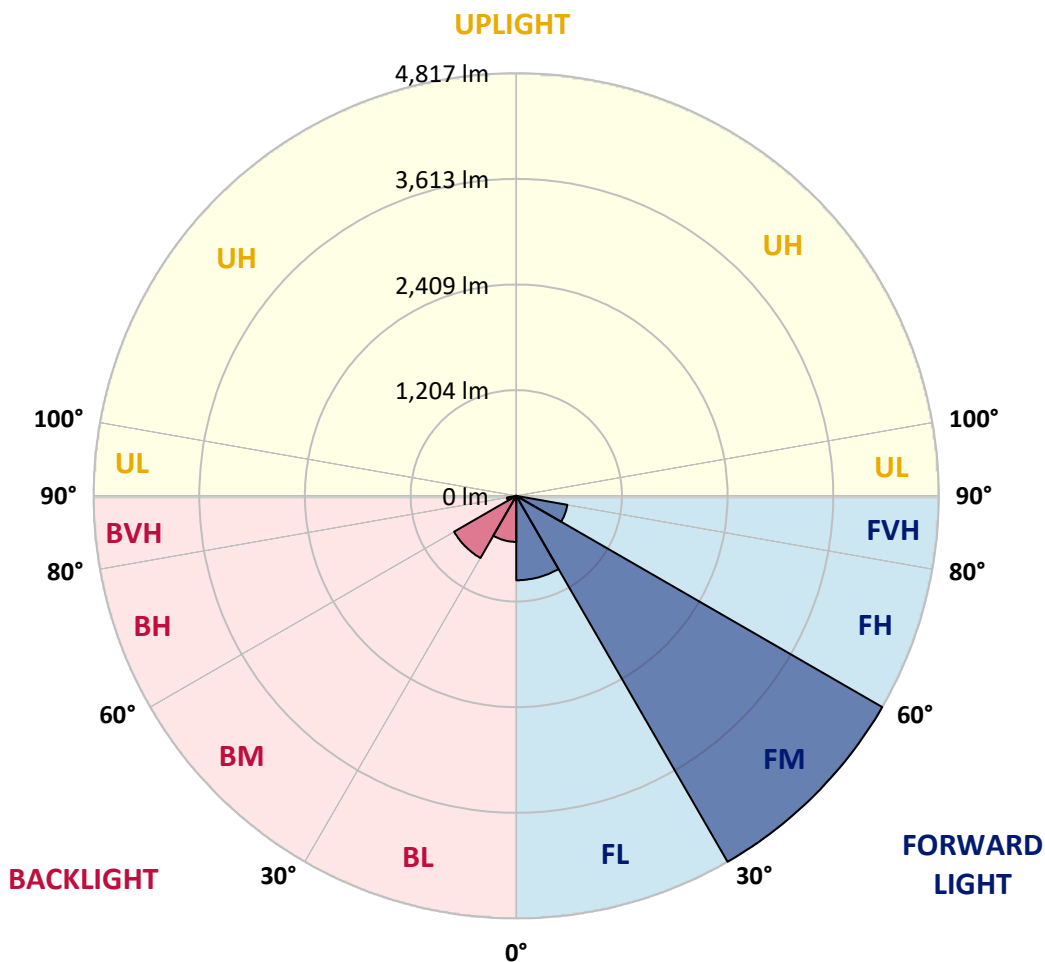


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.7	12.3			
FM (30°-60°)	4817.3	61.5			
FH (60°-80°)	591.4	7.6			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	524.8	6.7	B2/1000		
BM (30°-60°)	818.2	10.4	B1/1000		
BH (60°-80°)	106.2	1.4	B0/110		G0/110
BVH (80°-90°)	5.4	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4
2.5°	1892.9	1911.1	1913.9	1936.3	1934.9	1972.8	1984.0	1985.4	2010.6	1998.0	2030.2
5°	1839.7	1829.9	1825.7	1864.9	1876.1	1909.7	1937.7	1954.6	2006.4	2024.6	2058.2
7.5°	1792.1	1792.1	1794.9	1829.9	1825.7	1869.1	1898.5	1950.3	2026.0	2041.4	2082.0
10°	1745.9	1729.1	1750.1	1786.5	1817.3	1836.9	1898.5	1947.5	2035.8	2080.6	2136.6
12.5°	1722.1	1730.5	1733.3	1759.9	1793.5	1852.3	1885.9	1967.2	2105.8	2132.4	2192.6
15°	1871.9	1855.1	1814.5	1790.7	1818.7	1846.7	1930.7	2013.4	2142.2	2180.0	2247.2
17.5°	2045.6	2031.6	1998.0	1933.5	1870.5	1922.3	1988.2	2063.8	2181.4	2237.4	2336.8
20°	2272.4	2250.0	2216.4	2090.4	2035.8	1979.8	2049.8	2139.4	2245.8	2296.2	2398.4
22.5°	2542.6	2542.6	2467.0	2314.4	2201.0	2147.8	2177.2	2229.0	2317.2	2385.8	2486.6
25°	2824.0	2815.6	2747.0	2588.8	2397.0	2334.0	2367.6	2404.0	2427.8	2465.6	2532.8
27.5°	3146.0	3097.0	3010.2	2835.2	2665.8	2544.0	2580.4	2548.2	2518.8	2538.4	2635.0
30°	3364.5	3395.3	3284.7	3116.6	2957.0	2821.2	2828.2	2800.2	2665.8	2693.8	2751.2
32.5°	3591.3	3610.9	3549.3	3456.9	3297.3	3139.0	3081.6	3057.8	2957.0	2969.6	2913.6
35°	3780.3	3818.1	3763.5	3722.9	3676.7	3549.3	3391.1	3468.1	3305.7	3274.9	3129.2
37.5°	3953.9	3942.7	4007.1	3965.1	3955.3	3865.7	3692.1	3707.5	3598.3	3591.3	3423.3
40°	4109.3	4112.1	4200.3	4219.9	4180.7	4021.1	3769.1	3890.9	3979.1	3987.5	3771.9
42.5°	4238.1	4275.9	4351.5	4509.7	4450.9	4184.9	3848.9	3981.9	4309.5	4361.3	4102.3
45°	4350.1	4427.1	4520.9	4662.4	4628.8	4417.3	4047.7	4169.5	4662.4	4798.2	4413.1
47.5°	4357.1	4457.9	4560.2	4770.2	4812.2	4541.9	4253.5	4466.3	4942.4	5089.4	4640.0
50°	4329.1	4382.3	4586.8	4815.0	4910.2	4745.0	4541.9	4715.6	5214.0	5306.4	4754.8
52.5°	3997.3	4037.9	4448.1	4857.0	5086.6	4974.6	4924.2	5062.8	5491.2	5559.8	4862.6
55°	3332.3	3325.3	3889.5	4645.6	5167.8	5314.8	5284.0	5333.0	5811.8	5873.5	4889.2
57.5°	2279.4	2406.8	2894.0	3868.5	4670.8	5235.0	5267.2	5186.0	5438.0	5461.8	4261.9
60°	1229.3	1282.5	1674.5	2581.8	3556.3	4266.1	4350.1	4203.1	4183.5	4116.3	3042.4
62.5°	488.6	515.2	737.9	1278.3	1937.7	2593.0	2773.6	2713.4	2584.6	2408.2	1575.1
65°	232.4	249.2	366.8	597.8	859.7	1080.9	1261.5	1317.5	971.7	875.1	519.4
67.5°	158.2	170.8	267.4	341.6	306.6	320.6	417.2	387.8	228.2	194.6	144.2
70°	120.4	128.8	214.2	232.4	137.2	96.6	107.8	100.8	93.8	95.2	93.8
72.5°	85.4	92.4	156.8	137.2	60.2	44.8	57.4	68.6	68.6	68.6	67.2
75°	51.8	58.8	91.0	53.2	23.8	23.8	36.4	46.2	49.0	50.4	47.6
77.5°	26.6	33.6	30.8	15.4	15.4	18.2	26.6	32.2	35.0	35.0	33.6
80°	5.6	5.6	5.6	8.4	15.4	19.6	26.6	29.4	33.6	33.6	30.8
82.5°	0.0	1.4	4.2	8.4	14.0	18.2	25.2	29.4	33.6	35.0	32.2
85°	0.0	1.4	2.8	5.6	9.8	11.2	9.8	8.4	8.4	8.4	8.4
87.5°	0.0	0.0	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4	2013.4
2.5°	2033.0	2037.2	2030.2	2028.8	2023.2	2040.0	1999.4	1989.6	2014.8	1991.0	1996.6
5°	2059.6	2069.4	2056.8	2035.8	2005.0	1957.4	1916.7	1863.5	1838.3	1820.1	1817.3
7.5°	2079.2	2086.2	2073.6	2006.4	1913.9	1793.5	1703.9	1638.1	1586.3	1570.9	1545.7
10°	2159.0	2160.4	2097.4	1948.9	1768.3	1610.1	1472.9	1372.1	1320.3	1288.1	1274.1
12.5°	2212.2	2209.4	2082.0	1835.5	1594.7	1384.7	1227.9	1106.1	1058.5	1043.1	1033.3
15°	2279.4	2264.0	2045.6	1719.3	1370.7	1143.9	1002.5	918.5	914.3	904.5	914.3
17.5°	2332.6	2289.2	1992.4	1507.9	1156.5	942.3	849.9	855.5	866.7	876.5	877.9
20°	2419.4	2329.8	1870.5	1323.1	957.7	807.9	806.5	831.7	859.7	870.9	882.1
22.5°	2485.2	2346.6	1740.3	1125.7	795.3	753.3	777.1	814.9	835.9	847.1	863.9
25°	2509.0	2300.4	1566.7	928.3	716.9	728.1	764.5	789.7	816.3	828.9	821.9
27.5°	2532.8	2276.6	1359.5	764.5	674.9	711.3	742.1	767.3	775.7	792.5	803.7
30°	2590.2	2194.0	1173.3	660.9	653.9	700.1	722.5	730.9	753.3	763.1	763.1
32.5°	2636.4	2161.8	975.9	611.8	651.1	705.7	708.5	708.5	711.3	704.3	701.5
35°	2731.6	2051.2	799.5	582.4	649.6	707.1	714.1	690.3	625.8	600.6	593.6
37.5°	2849.2	1979.8	669.3	575.4	659.5	723.9	735.1	645.4	561.4	520.8	513.8
40°	2992.0	1929.3	583.8	572.6	681.9	763.1	729.5	610.4	501.2	442.4	439.6
42.5°	3158.6	1883.1	526.4	571.2	709.9	803.7	723.9	581.0	439.6	400.4	406.0
45°	3291.7	1857.9	487.2	561.4	719.7	827.5	728.1	529.2	414.4	389.2	392.0
47.5°	3395.3	1804.7	455.0	544.6	718.3	835.9	690.3	508.2	401.8	408.8	415.8
50°	3398.1	1733.3	414.4	508.2	697.3	820.5	646.8	488.6	399.0	428.4	442.4
52.5°	3360.3	1632.5	371.0	456.4	648.2	767.3	607.6	480.2	386.4	383.6	400.4
55°	3225.8	1443.5	298.2	369.6	547.4	632.8	572.6	464.8	348.6	316.4	319.2
57.5°	2607.0	1034.7	219.8	264.6	387.8	463.4	516.6	457.8	313.6	268.8	270.2
60°	1614.3	586.6	161.0	180.6	239.4	281.4	418.6	425.6	280.0	226.8	224.0
62.5°	828.9	289.8	124.6	127.4	147.0	165.2	287.0	357.0	253.4	215.6	215.6
65°	277.2	142.8	109.2	98.0	98.0	102.2	173.6	247.8	214.2	180.6	180.6
67.5°	119.0	106.4	95.2	85.4	78.4	74.2	98.0	144.2	159.6	137.2	131.6
70°	92.4	89.6	82.6	71.4	61.6	56.0	57.4	74.2	91.0	88.2	85.4
72.5°	68.6	68.6	65.8	56.0	47.6	40.6	37.8	39.2	43.4	44.8	46.2
75°	47.6	49.0	49.0	43.4	35.0	29.4	25.2	21.0	16.8	14.0	12.6
77.5°	32.2	33.6	36.4	32.2	26.6	19.6	15.4	11.2	7.0	2.8	2.8
80°	28.0	32.2	35.0	32.2	28.0	21.0	15.4	8.4	4.2	0.0	0.0
82.5°	29.4	32.2	36.4	30.8	26.6	19.6	15.4	9.8	4.2	1.4	0.0
85°	7.0	7.0	8.4	9.8	12.6	14.0	11.2	7.0	4.2	1.4	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	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)