

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: P527243

Luminaire Tested: **GALN-SA2B-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6083 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

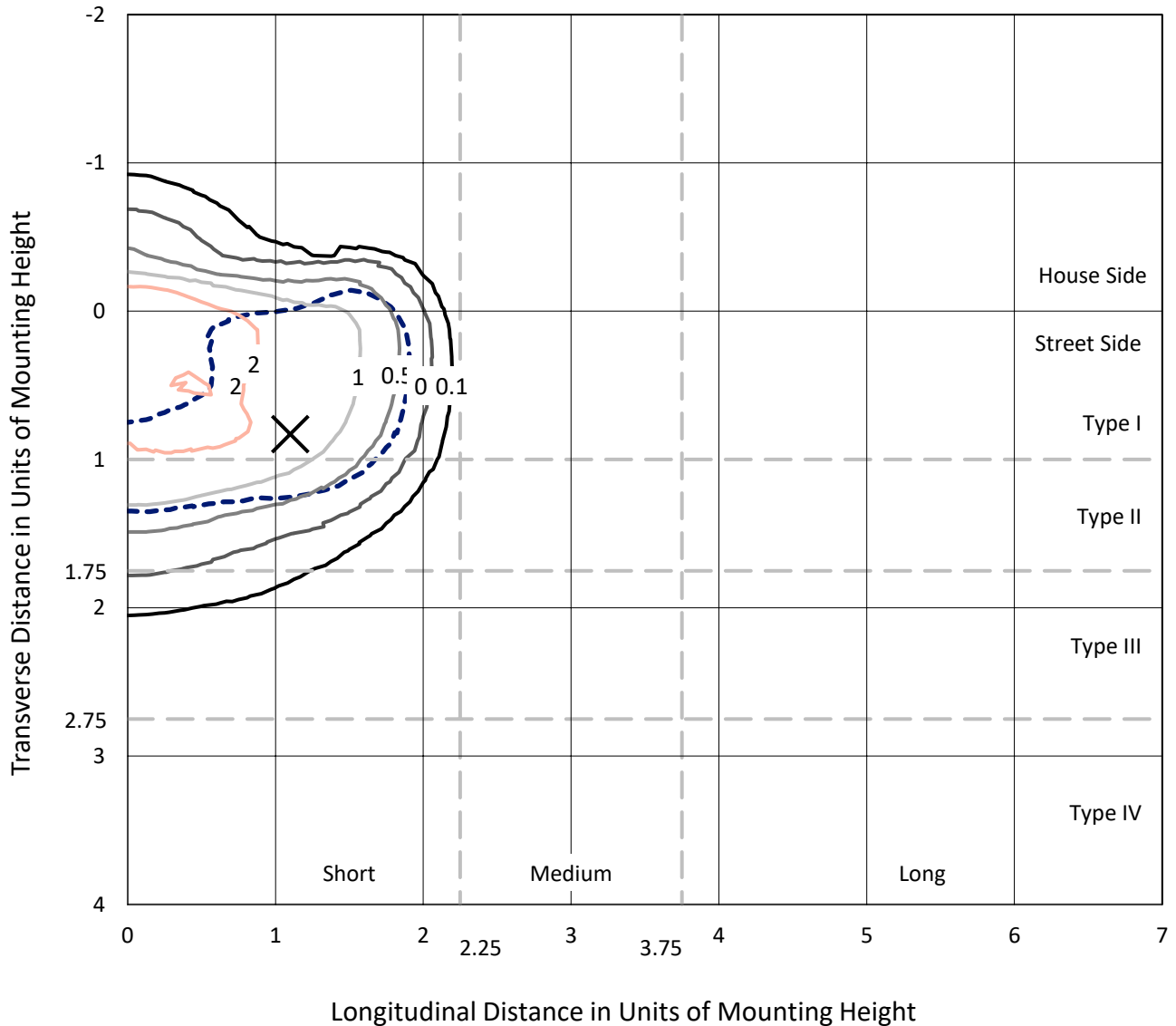
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

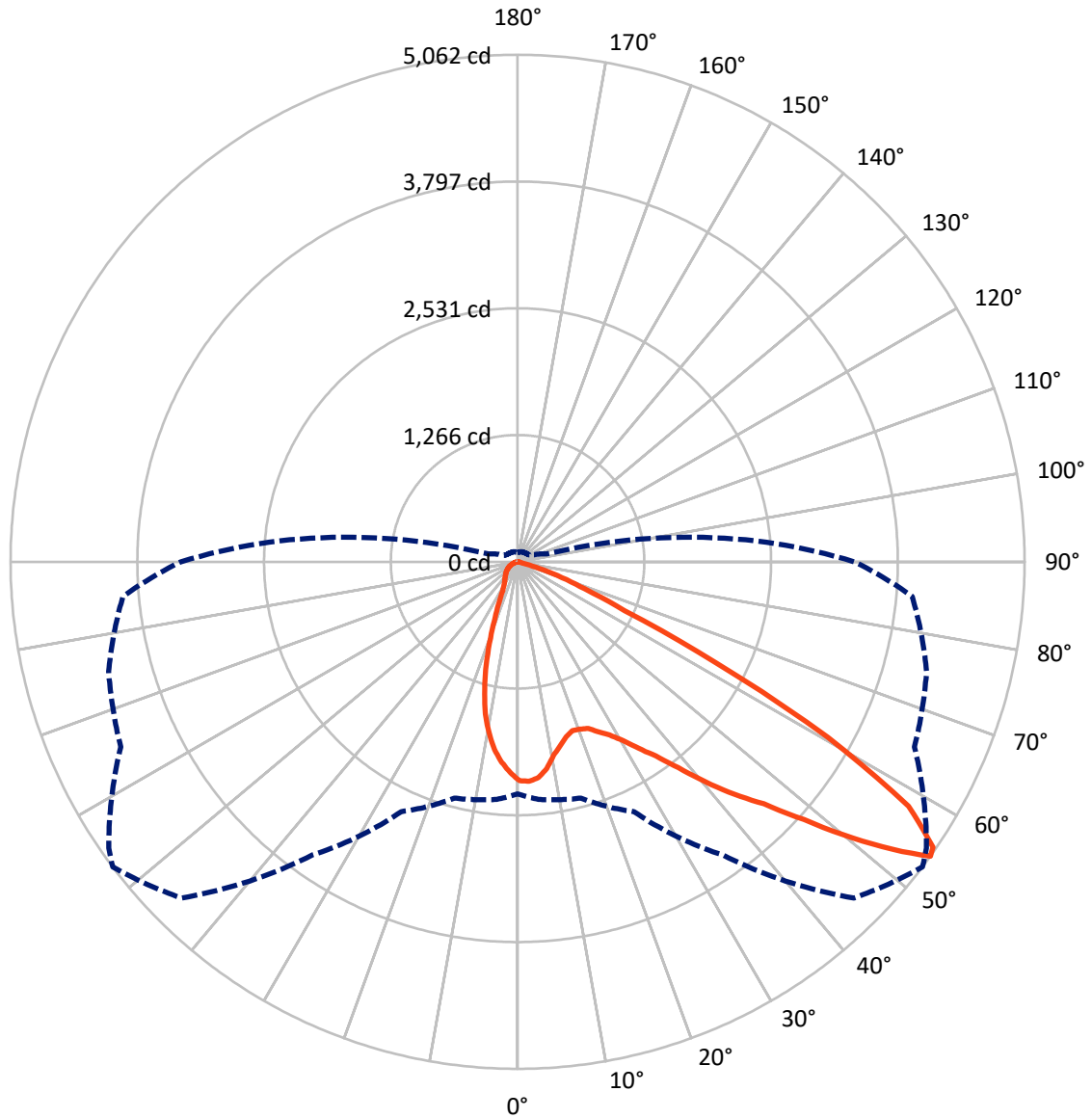
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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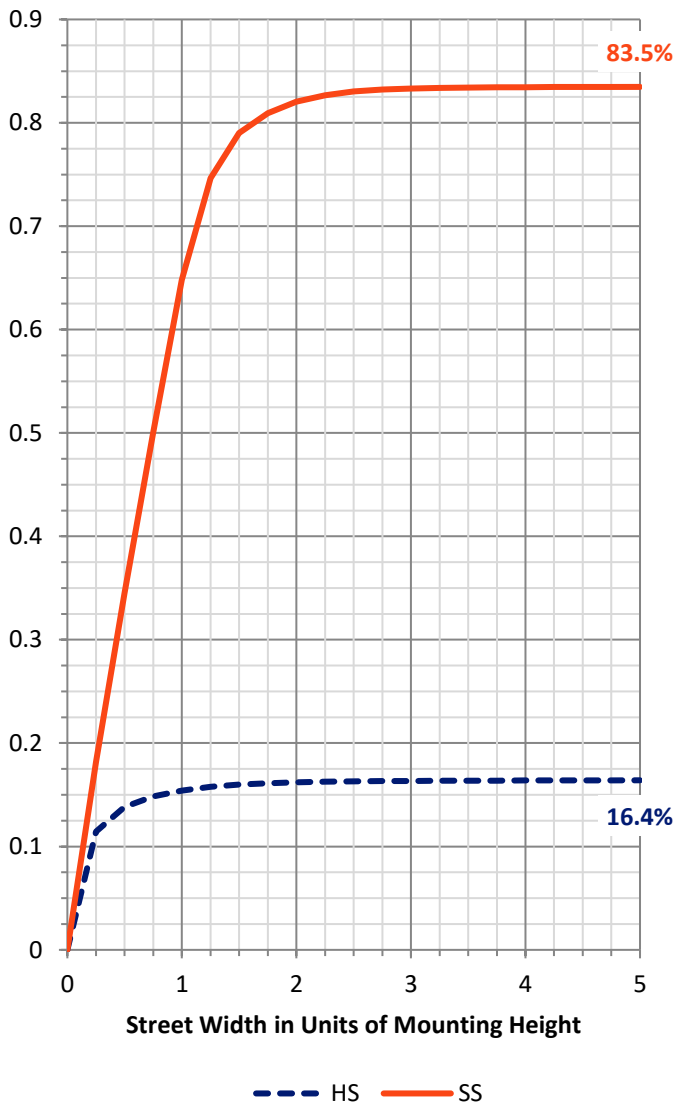
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1006.5	0.0	1006.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5076.6	0.0	5076.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	6083.0	0.0	6083.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	3.1
10°-20°	429.8	7.1
20°-30°	610.8	10.0
30°-40°	942.7	15.5
40°-50°	1478.0	24.3
50°-60°	1716.9	28.2
60°-70°	648.8	10.7
70°-80°	61.7	1.0
80°-90°	6.9	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°	6083.0	100.0
0°-180°	6083.0	100.0

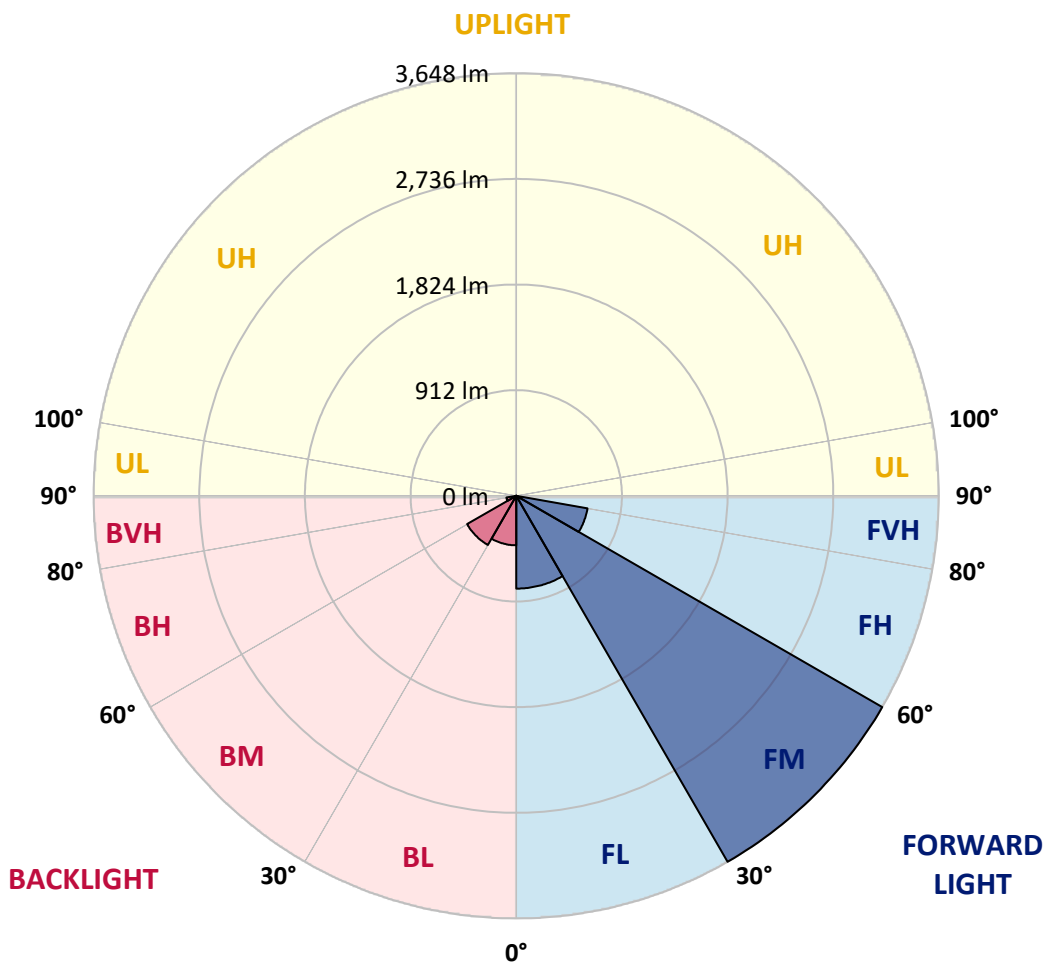


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.0	13.2			
FM (30°-60°)	3647.8	60.0			
FH (60°-80°)	624.2	10.3			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	427.1	7.0	B1/500		
BM (30°-60°)	489.8	8.1	B1/1000		
BH (60°-80°)	86.2	1.4	B0/110		G0/110
BVH (80°-90°)	3.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9
2.5°	2173.6	2154.3	2173.6	2175.8	2189.4	2201.9	2194.0	2212.1	2201.9	2190.6	2187.2
5°	1997.9	2024.0	2025.1	2065.9	2056.9	2131.6	2164.5	2155.4	2211.0	2207.6	2199.6
7.5°	1840.4	1830.2	1843.8	1891.4	1951.5	2037.6	2085.2	2084.1	2163.4	2220.0	2214.4
10°	1694.2	1693.1	1721.4	1758.8	1809.8	1900.5	1966.2	1999.1	2122.6	2208.7	2221.2
12.5°	1595.6	1591.1	1621.7	1652.3	1732.7	1803.0	1886.9	1902.7	2044.4	2169.0	2189.4
15°	1531.0	1541.2	1543.5	1602.4	1653.4	1746.3	1812.1	1844.9	2008.1	2137.3	2215.5
17.5°	1519.7	1533.3	1534.4	1583.2	1637.6	1715.7	1773.5	1817.7	1977.5	2153.2	2216.6
20°	1542.4	1534.4	1541.2	1571.8	1625.1	1699.9	1783.7	1798.5	1967.3	2161.1	2229.1
22.5°	1607.0	1604.7	1587.7	1612.6	1650.0	1728.2	1807.5	1830.2	1996.8	2201.9	2239.3
25°	1678.3	1690.8	1674.9	1671.5	1697.6	1774.7	1880.1	1909.5	2095.4	2275.6	2271.0
27.5°	1812.1	1799.6	1799.6	1783.7	1776.9	1814.3	1958.3	2007.0	2205.3	2370.8	2307.3
30°	1940.1	1953.7	1943.5	1949.2	1903.9	1900.5	2069.3	2129.4	2400.2	2515.8	2384.4
32.5°	2143.0	2124.8	2141.8	2127.1	2067.1	2005.9	2220.0	2282.4	2635.9	2682.4	2500.0
35°	2311.8	2303.9	2376.4	2374.2	2276.7	2216.6	2379.8	2472.8	2800.3	2881.9	2635.9
37.5°	2552.1	2537.4	2620.1	2659.7	2572.5	2483.0	2608.7	2716.4	2953.3	3041.7	2775.3
40°	2799.1	2836.5	2947.6	3013.3	2920.4	2801.4	2888.7	2921.5	3055.2	3145.9	2870.5
42.5°	3111.9	3166.3	3279.6	3336.3	3328.4	3199.2	3173.1	3172.0	3128.9	3116.4	2940.8
45°	3412.2	3391.8	3566.3	3689.9	3789.6	3752.2	3447.4	3413.4	3245.6	3160.6	2958.9
47.5°	3543.7	3536.9	3655.9	3875.7	4215.7	4262.2	3846.3	3714.8	3442.8	3346.5	3057.5
50°	3373.7	3408.8	3526.7	3770.3	4291.6	4646.3	4335.8	4159.0	3672.9	3573.1	3291.0
52.5°	2818.4	2842.2	2954.4	3263.8	4033.2	4873.0	4805.0	4703.0	4095.6	3930.1	3697.8
54°	2317.5	2381.0	2442.2	2752.7	3573.1	4747.2	5062.2	4984.0	4371.0	4227.0	3953.9
55°	2018.3	2055.7	2099.9	2409.3	3254.7	4534.1	5032.8	5039.6	4555.7	4320.0	4126.2
57.5°	1474.4	1500.4	1455.1	1592.2	2234.8	3681.9	4603.3	4786.9	4805.0	4459.3	4231.6
60°	1126.5	1137.8	1086.8	1108.3	1389.4	2527.2	3560.7	3781.7	4334.7	3897.3	3584.5
62.5°	873.7	876.0	874.9	912.3	957.6	1486.8	2226.8	2422.9	2988.4	2767.4	2434.2
65°	643.7	633.5	651.6	764.9	817.1	934.9	1172.9	1315.7	1624.0	1371.2	980.3
67.5°	417.0	420.4	438.6	568.9	700.4	717.3	721.9	710.5	711.7	392.1	245.9
70°	250.4	256.1	250.4	321.8	500.9	514.5	470.3	459.0	358.1	92.9	91.8
72.5°	148.5	140.5	125.8	138.3	208.5	249.3	224.4	223.3	140.5	54.4	54.4
75°	62.3	56.7	46.5	41.9	55.5	53.3	53.3	47.6	37.4	36.3	34.0
77.5°	12.5	12.5	9.1	10.2	13.6	15.9	19.3	19.3	22.7	22.7	21.5
80°	0.0	1.1	3.4	6.8	10.2	14.7	17.0	17.0	19.3	19.3	15.9
82.5°	0.0	1.1	3.4	6.8	9.1	13.6	17.0	17.0	19.3	20.4	17.0
85°	0.0	1.1	3.4	5.7	9.1	11.3	11.3	10.2	7.9	6.8	4.5
87.5°	0.0	0.0	1.1	2.3	1.1	2.3	2.3	2.3	2.3	2.3	2.3
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°	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9	2184.9
2.5°	2195.1	2194.0	2166.8	2122.6	2112.4	2075.0	2070.5	2047.8	2060.3	2018.3	2013.8
5°	2177.0	2163.4	2130.5	2102.2	2019.5	1960.5	1914.1	1857.4	1824.5	1830.2	1808.7
7.5°	2203.0	2167.9	2110.1	2011.5	1910.7	1807.5	1752.0	1636.4	1594.5	1532.2	1523.1
10°	2175.8	2149.8	2060.3	1897.1	1757.7	1609.2	1478.9	1350.8	1253.4	1211.4	1202.4
12.5°	2173.6	2128.2	1978.7	1797.3	1595.6	1382.6	1193.3	1033.5	937.2	882.8	870.3
15°	2138.4	2084.1	1886.9	1643.2	1364.4	1099.3	893.0	738.9	665.2	633.5	642.6
17.5°	2141.8	2060.3	1795.1	1480.0	1136.7	806.9	609.7	530.4	511.1	519.0	519.0
20°	2138.4	2007.0	1684.0	1291.9	870.3	559.8	447.6	419.3	431.8	456.7	451.0
22.5°	2120.3	1982.1	1582.0	1093.6	640.3	414.8	359.2	360.4	379.6	410.2	417.0
25°	2133.9	1926.5	1452.8	893.0	466.9	330.9	311.6	319.6	340.0	362.6	367.2
27.5°	2123.7	1886.9	1318.0	693.6	341.1	284.4	283.3	292.4	301.4	318.4	318.4
30°	2135.0	1850.6	1185.4	515.6	281.0	260.6	256.1	262.9	272.0	275.4	274.2
32.5°	2177.0	1823.4	1032.4	385.3	248.2	238.0	238.0	238.0	236.8	241.4	242.5
35°	2268.8	1827.9	897.5	298.0	226.7	218.7	215.3	210.8	208.5	210.8	211.9
37.5°	2368.5	1825.7	758.1	253.8	210.8	204.0	196.1	189.3	188.1	190.4	187.0
40°	2412.7	1847.2	629.0	227.8	196.1	188.1	175.7	170.0	171.1	173.4	171.1
42.5°	2472.8	1854.0	545.1	207.4	182.5	170.0	162.1	155.3	154.1	157.5	156.4
45°	2471.6	1815.5	456.7	196.1	170.0	156.4	146.2	140.5	140.5	142.8	143.9
47.5°	2544.2	1809.8	392.1	185.9	160.9	147.3	134.9	130.3	129.2	129.2	126.9
50°	2713.0	1889.1	342.2	174.5	149.6	137.1	126.9	121.3	116.7	114.5	113.3
52.5°	3042.8	2136.2	303.7	160.9	137.1	126.9	117.9	113.3	107.7	102.0	100.9
54°	3362.4	2391.2	301.4	149.6	126.9	120.1	112.2	109.9	103.1	95.2	92.9
55°	3506.3	2539.6	309.4	140.5	120.1	115.6	108.8	106.5	99.7	90.7	89.5
57.5°	3625.3	2597.4	304.8	116.7	108.8	107.7	102.0	98.6	90.7	78.2	75.9
60°	2918.1	1963.9	218.7	103.1	99.7	97.5	92.9	90.7	80.5	66.9	65.7
62.5°	1843.8	1129.9	139.4	90.7	87.3	83.9	78.2	75.9	66.9	53.3	49.9
65°	785.3	468.0	94.1	80.5	74.8	69.1	64.6	61.2	53.3	39.7	38.5
67.5°	204.0	166.6	78.2	70.3	62.3	54.4	51.0	45.3	36.3	27.2	26.1
70°	91.8	83.9	65.7	58.9	49.9	41.9	37.4	31.7	23.8	18.1	17.0
72.5°	54.4	53.3	49.9	44.2	37.4	31.7	27.2	21.5	15.9	10.2	10.2
75°	34.0	32.9	34.0	30.6	26.1	23.8	20.4	14.7	9.1	4.5	4.5
77.5°	20.4	20.4	20.4	19.3	18.1	18.1	14.7	9.1	4.5	1.1	1.1
80°	15.9	15.9	17.0	15.9	15.9	15.9	12.5	6.8	2.3	0.0	0.0
82.5°	15.9	17.0	19.3	18.1	15.9	13.6	11.3	6.8	2.3	0.0	0.0
85°	4.5	3.4	5.7	7.9	11.3	10.2	7.9	5.7	2.3	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	1.1	1.1	1.1	1.1	1.1	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)