

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: P528581

Luminaire Tested: **GALN-SA3C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9959 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

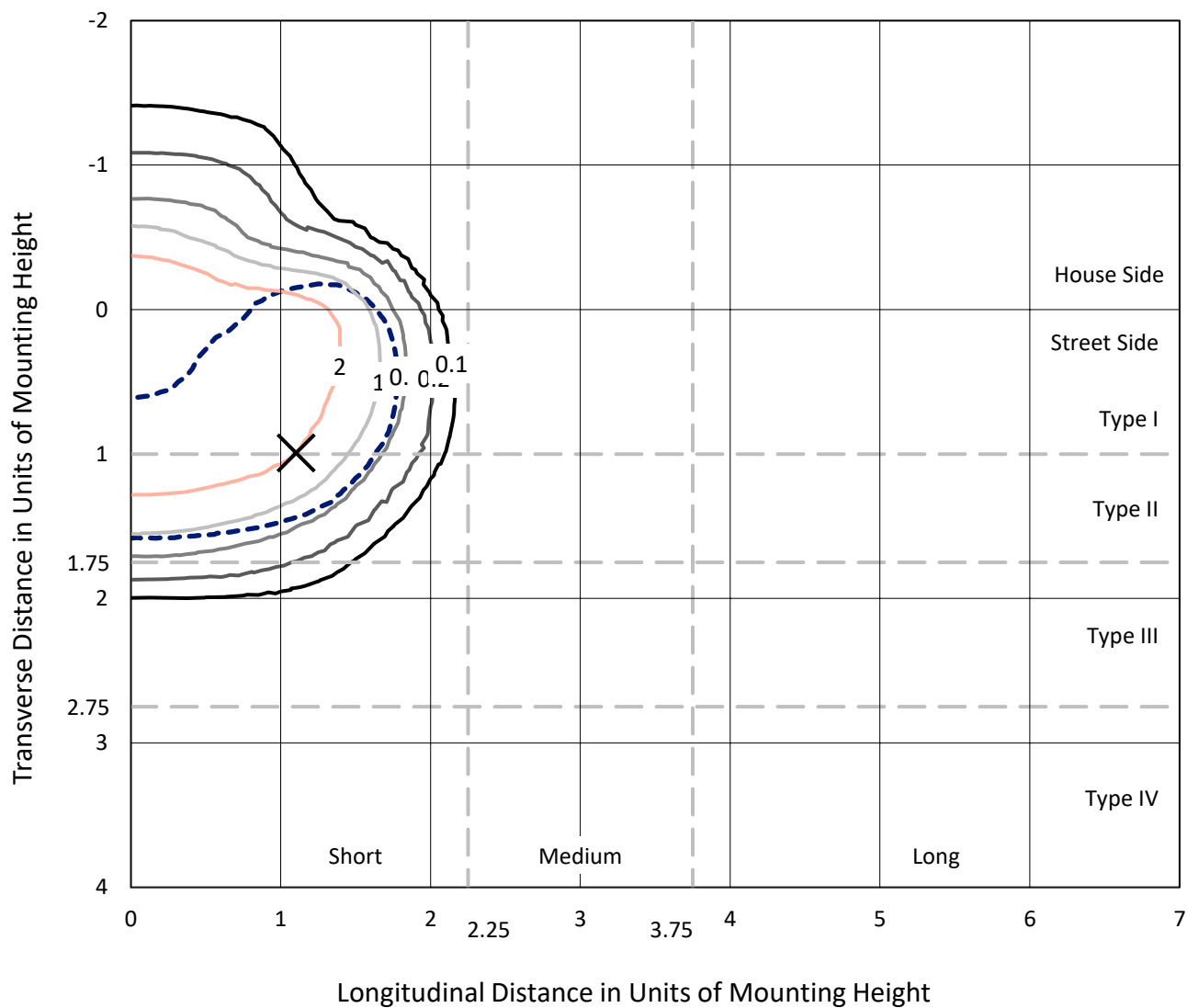
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

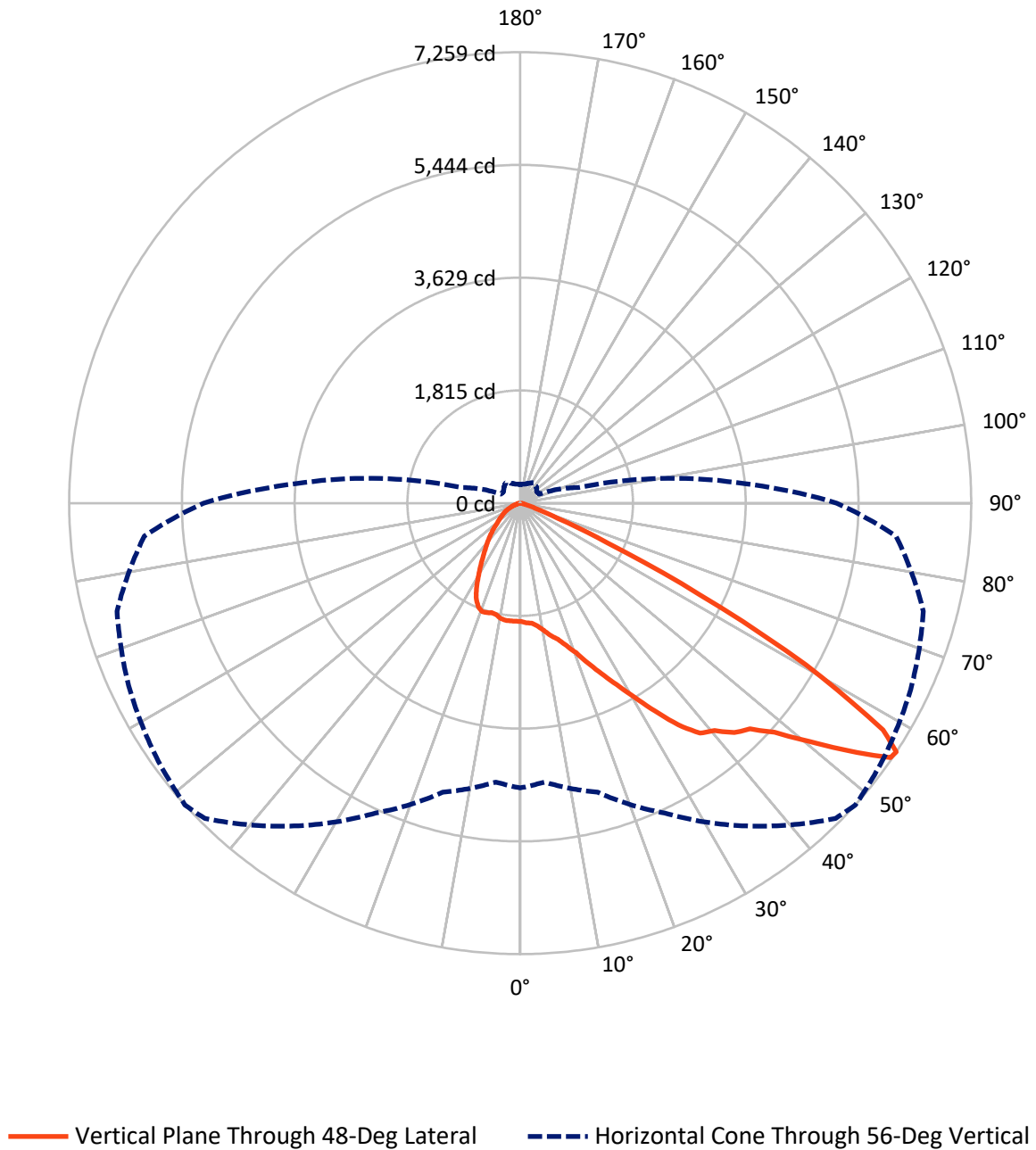
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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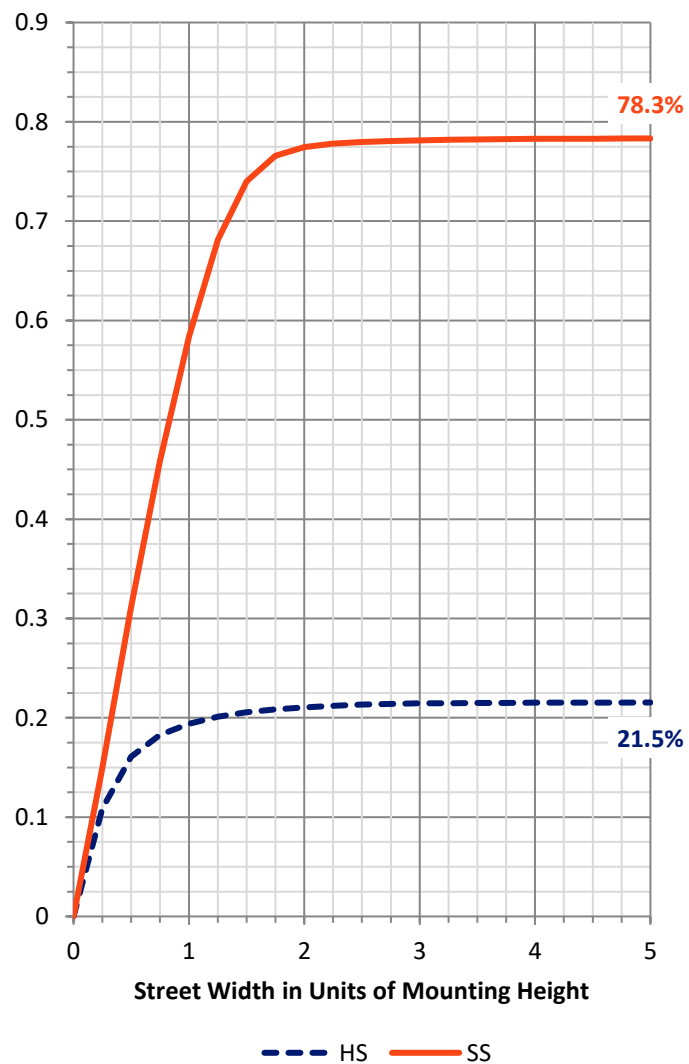
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.9	0.0	2165.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7793.1	0.0	7793.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	9959.0	0.0	9959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	1.9
10°-20°	592.2	5.9
20°-30°	1074.1	10.8
30°-40°	1687.1	16.9
40°-50°	2461.2	24.7
50°-60°	2965.3	29.8
60°-70°	868.2	8.7
70°-80°	110.1	1.1
80°-90°	15.4	0.2
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°	9959.0	100.0
0°-180°	9959.0	100.0

Coefficient of Utilization



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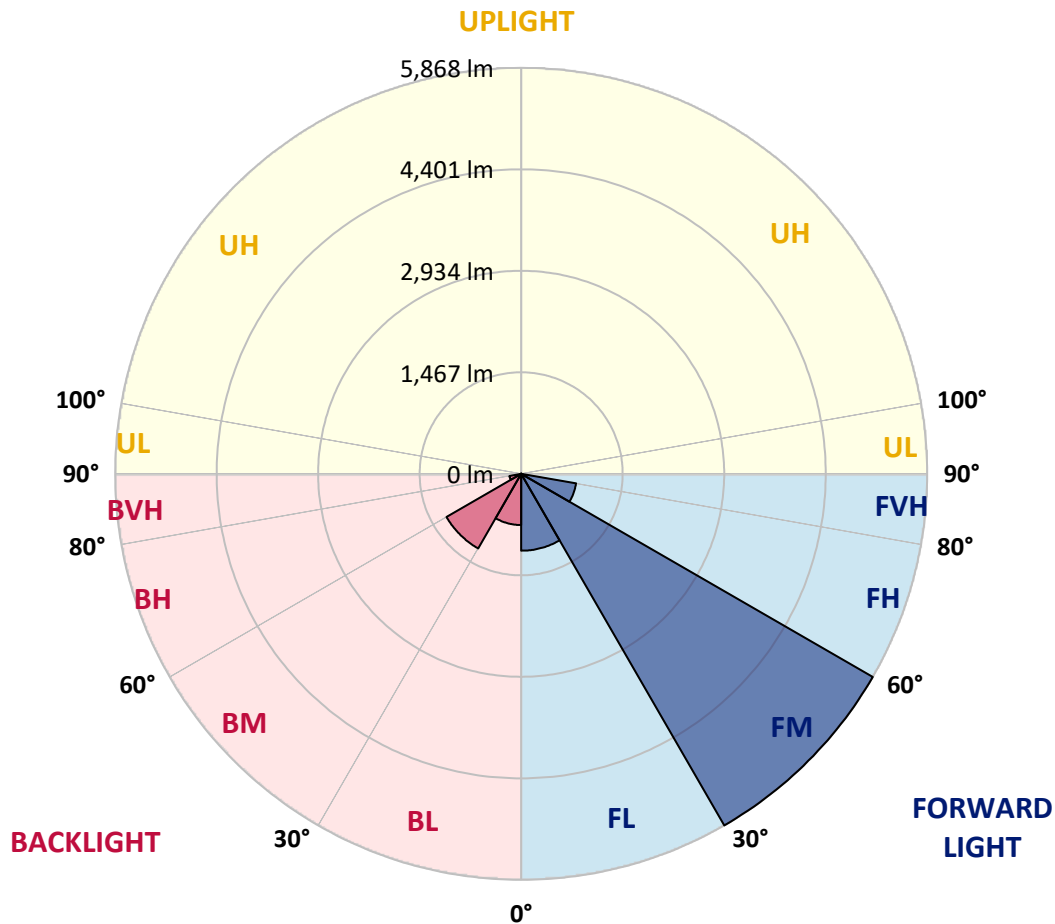
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1111.2	11.2			
FM	(30°-60°)	5867.9	58.9			
FH	(60°-80°)	806.3	8.1			G1/1800
FVH	(80°-90°)	7.8	0.1			G0/10
BL	(0°-30°)	740.3	7.4	B2/1000		
BM	(30°-60°)	1245.8	12.5	B2/2500		
BH	(60°-80°)	172.1	1.7	B1/500		G1/500
BVH	(80°-90°)	7.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2
2.5°	1936.6	1927.6	1927.6	1913.1	1929.4	1922.1	1927.6	1909.4	1927.6	1900.4	1922.1
5°	1945.7	1947.5	1940.3	1949.3	1949.3	1960.2	1942.1	1958.4	1967.5	1947.5	1938.4
7.5°	1992.8	1996.5	1994.7	1987.4	2001.9	2000.1	1998.3	1985.6	1989.2	1982.0	1971.1
10°	2085.3	2083.5	2092.6	2074.4	2063.6	2076.3	2079.9	2059.9	2045.4	2040.0	2005.5
12.5°	2219.5	2197.7	2185.1	2166.9	2172.4	2154.2	2186.9	2152.4	2145.2	2112.5	2078.1
15°	2328.3	2324.7	2326.5	2297.5	2264.8	2272.1	2272.1	2254.0	2243.1	2203.2	2154.2
17.5°	2551.3	2475.2	2491.5	2455.2	2428.0	2426.2	2409.9	2413.5	2384.5	2301.1	2226.8
20°	2725.4	2692.8	2667.4	2605.7	2564.0	2576.7	2569.5	2551.3	2542.3	2433.5	2328.3
22.5°	2881.4	2892.2	2850.5	2834.2	2776.2	2781.6	2796.1	2779.8	2710.9	2598.5	2442.5
25°	3100.8	3088.1	3031.9	3011.9	2957.5	2977.5	3033.7	3021.0	2977.5	2774.4	2531.4
27.5°	3360.1	3316.6	3327.4	3236.8	3184.2	3240.4	3307.5	3371.0	3247.7	2981.1	2636.6
30°	3543.2	3497.9	3494.3	3490.6	3477.9	3543.2	3621.2	3679.2	3579.5	3187.8	2810.6
32.5°	3633.9	3644.8	3675.6	3664.7	3775.3	3909.5	3991.1	4074.5	3949.4	3525.1	3040.9
35°	3875.1	3806.2	3875.1	3882.3	3996.6	4281.2	4384.6	4584.1	4553.2	4002.0	3322.0
37.5°	4016.5	4011.1	4020.1	4089.0	4199.7	4551.4	4698.3	4852.4	4794.4	4288.5	3672.0
40°	4250.4	4264.9	4263.1	4315.7	4437.2	4754.5	4814.4	4939.5	4944.9	4685.6	4187.0
42.5°	4625.8	4567.8	4529.7	4584.1	4754.5	4930.4	5050.1	5024.7	5204.2	5168.0	4848.8
45°	4963.1	4997.5	4941.3	5032.0	5093.6	5187.9	5184.3	5238.7	5467.2	5639.4	5347.5
47.5°	5278.6	5300.3	5327.5	5389.2	5523.4	5537.9	5507.1	5483.5	5799.0	5976.7	5733.7
50°	5467.2	5487.1	5614.0	5724.7	5974.9	6007.5	6025.7	5965.8	6179.8	6199.7	6098.2
52.5°	5416.4	5438.1	5615.9	5980.3	6379.3	6678.5	6624.1	6522.5	6509.8	6587.8	6435.5
55°	4966.7	4946.7	5191.5	5759.1	6506.2	7224.3	7231.5	7124.5	6919.6	6867.0	6384.7
56°	4584.1	4506.1	4818.0	5503.4	6343.0	7177.1	7258.7	7144.5	6952.3	6716.5	6071.0
57.5°	3755.4	3829.7	4139.8	4707.4	5779.1	6838.0	6885.2	6858.0	6712.9	6317.6	5342.0
60°	2070.8	2201.4	2475.2	3169.7	4114.4	5247.7	5285.8	5507.1	5534.3	4837.9	3675.6
62.5°	879.5	865.0	1149.6	1661.0	2342.8	3167.9	3238.6	3465.3	3507.0	2788.9	1844.1
65°	357.2	377.2	520.4	835.9	1238.5	1443.4	1543.1	1617.5	1755.3	1151.5	680.0
67.5°	235.7	233.9	306.5	476.9	667.3	643.7	643.7	680.0	629.2	469.7	293.8
70°	168.6	174.1	219.4	330.0	415.3	308.3	295.6	282.9	321.0	310.1	237.5
72.5°	110.6	117.9	146.9	197.7	215.8	168.6	168.6	203.1	264.7	250.2	194.0
75°	72.5	74.3	90.7	114.2	107.0	87.0	96.1	136.0	192.2	185.0	137.8
77.5°	49.0	50.8	61.7	74.3	59.8	49.0	52.6	68.9	94.3	94.3	72.5
80°	18.1	19.9	25.4	23.6	27.2	34.5	38.1	47.1	56.2	56.2	49.0
82.5°	0.0	1.8	5.4	12.7	19.9	27.2	30.8	36.3	41.7	47.1	45.3
85°	0.0	1.8	5.4	9.1	14.5	16.3	18.1	12.7	10.9	10.9	9.1
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.6	1.8	1.8
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°	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2	1902.2
2.5°	1902.2	1900.4	1900.4	1894.9	1905.8	1900.4	1904.0	1902.2	1878.6	1896.7	1884.0
5°	1922.1	1934.8	1914.9	1911.2	1896.7	1902.2	1902.2	1884.0	1900.4	1898.5	1894.9
7.5°	1972.9	1951.1	1929.4	1907.6	1904.0	1898.5	1878.6	1871.3	1884.0	1869.5	1891.3
10°	1994.7	1998.3	1965.6	1936.6	1909.4	1871.3	1844.1	1827.8	1807.9	1829.6	1842.3
12.5°	2094.4	2058.1	2001.9	1956.6	1864.1	1826.0	1798.8	1791.6	1826.0	1833.3	1820.6
15°	2128.8	2123.4	2050.9	1949.3	1853.2	1807.9	1813.3	1798.8	1802.4	1784.3	1787.9
17.5°	2199.6	2137.9	2052.7	1925.7	1851.4	1840.5	1807.9	1749.9	1717.2	1702.7	1715.4
20°	2277.5	2217.7	2094.4	1934.8	1867.7	1838.7	1731.7	1661.0	1593.9	1557.6	1559.5
22.5°	2346.4	2272.1	2076.3	1938.4	1882.2	1762.5	1633.8	1494.2	1410.8	1354.6	1356.4
25°	2429.8	2324.7	2083.5	1945.7	1844.1	1641.1	1456.1	1320.1	1220.4	1182.3	1195.0
27.5°	2477.0	2357.3	2123.4	1962.0	1744.4	1468.8	1269.3	1142.4	1084.4	1066.2	1064.4
30°	2618.4	2429.8	2172.4	1929.4	1577.6	1283.8	1098.9	1020.9	964.7	948.4	952.0
32.5°	2828.8	2562.2	2235.8	1844.1	1407.1	1118.8	988.3	930.2	877.6	846.8	843.2
35°	3004.7	2788.9	2302.9	1711.8	1209.5	991.9	910.3	837.8	758.0	723.5	714.4
37.5°	3340.1	3044.6	2288.4	1512.3	1020.9	897.6	826.9	738.0	669.1	622.0	616.5
40°	3786.2	3343.8	2217.7	1269.3	881.3	814.2	738.0	652.8	567.6	527.7	524.0
42.5°	4328.4	3710.1	2088.9	1022.7	741.6	730.8	661.9	563.9	487.8	458.8	460.6
45°	4769.0	4023.8	1958.4	821.4	638.3	649.2	589.3	496.8	444.3	420.7	420.7
47.5°	5160.7	4235.9	1816.9	678.2	542.2	567.6	515.0	460.6	415.3	397.1	393.5
50°	5537.9	4451.7	1675.5	549.4	462.4	487.8	482.3	438.8	402.6	380.8	382.6
52.5°	5773.6	4486.2	1496.0	449.7	404.4	433.4	451.5	411.6	371.7	359.0	355.4
55°	5485.3	4041.9	1160.5	369.9	342.7	380.8	415.3	369.9	339.1	317.3	315.5
56°	5097.2	3613.9	970.1	340.9	324.6	366.3	402.6	353.6	319.1	306.5	297.4
57.5°	4315.7	2957.5	716.3	302.8	301.0	340.9	382.6	337.3	297.4	286.5	286.5
60°	2691.0	1664.6	433.4	253.9	261.1	302.8	344.5	301.0	264.7	264.7	270.2
62.5°	1225.8	692.7	262.9	215.8	224.9	261.1	306.5	272.0	252.1	272.0	275.6
65°	417.1	299.2	190.4	172.3	177.7	215.8	262.9	275.6	273.8	286.5	293.8
67.5°	233.9	192.2	159.6	143.3	139.6	159.6	215.8	275.6	264.7	259.3	262.9
70°	197.7	163.2	141.4	126.9	121.5	128.7	166.8	208.5	186.8	181.3	177.7
72.5°	159.6	136.0	123.3	114.2	97.9	83.4	76.2	79.8	88.9	94.3	103.4
75°	112.4	103.4	103.4	92.5	70.7	52.6	41.7	34.5	23.6	16.3	18.1
77.5°	63.5	63.5	65.3	56.2	45.3	34.5	25.4	18.1	9.1	3.6	1.8
80°	43.5	47.1	50.8	45.3	38.1	30.8	21.8	12.7	5.4	0.0	0.0
82.5°	43.5	49.0	52.6	45.3	38.1	29.0	21.8	12.7	5.4	1.8	0.0
85°	9.1	10.9	12.7	14.5	21.8	21.8	16.3	10.9	5.4	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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)