

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: P528814

Luminaire Tested: **GALN-SA3D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16126 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 184
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

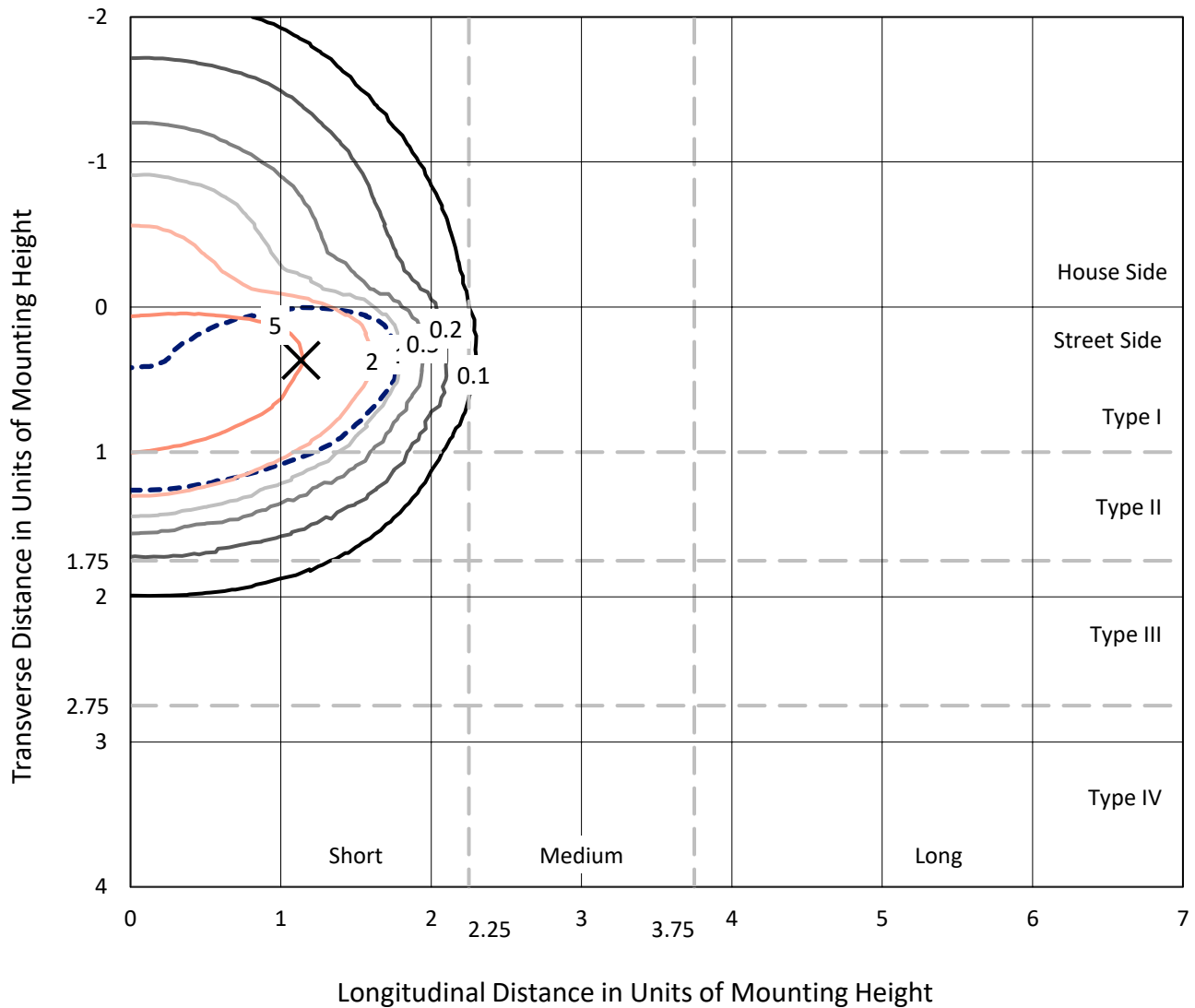


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Iso-Footcandle Lines of Horizontal Illumination

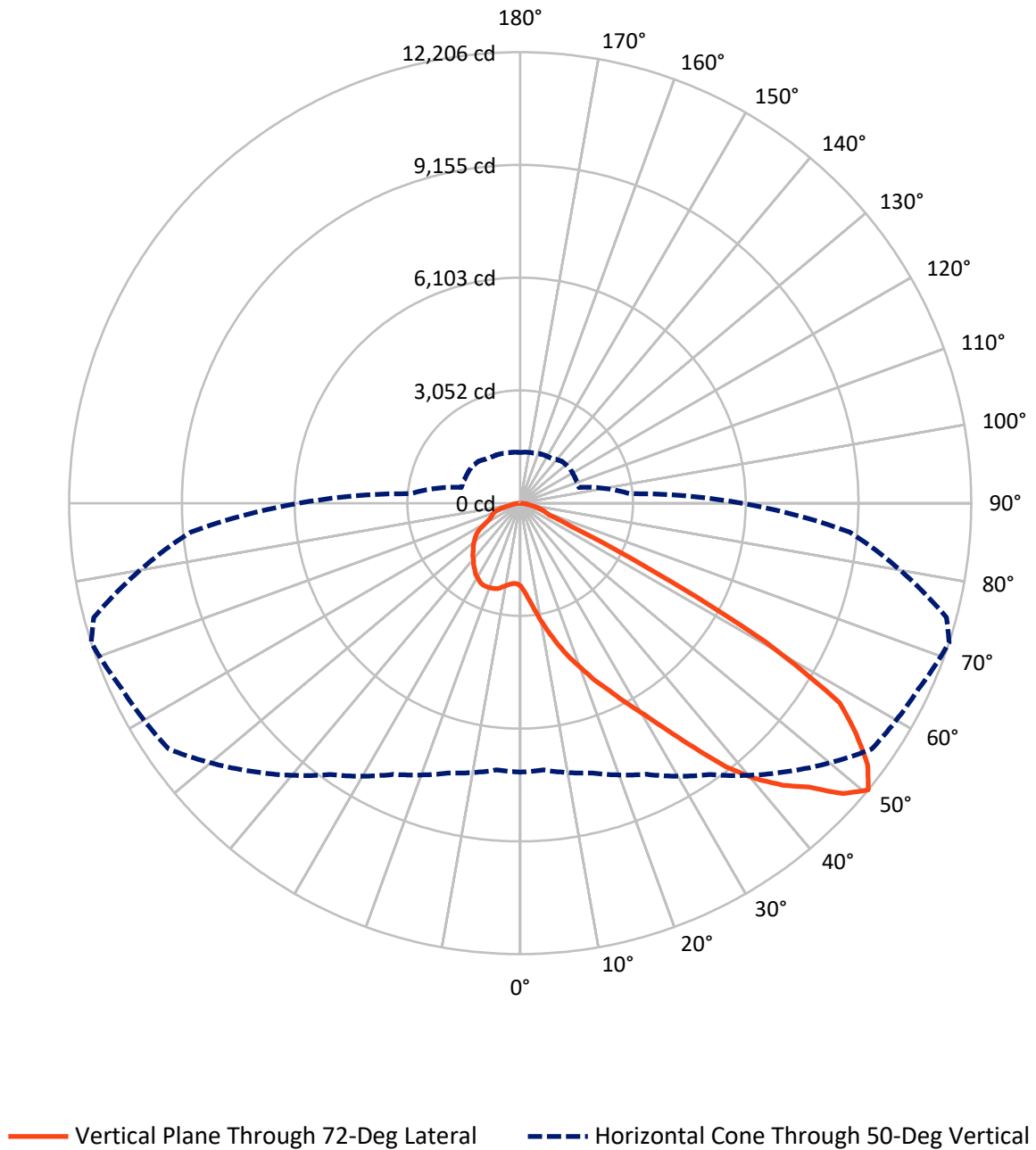
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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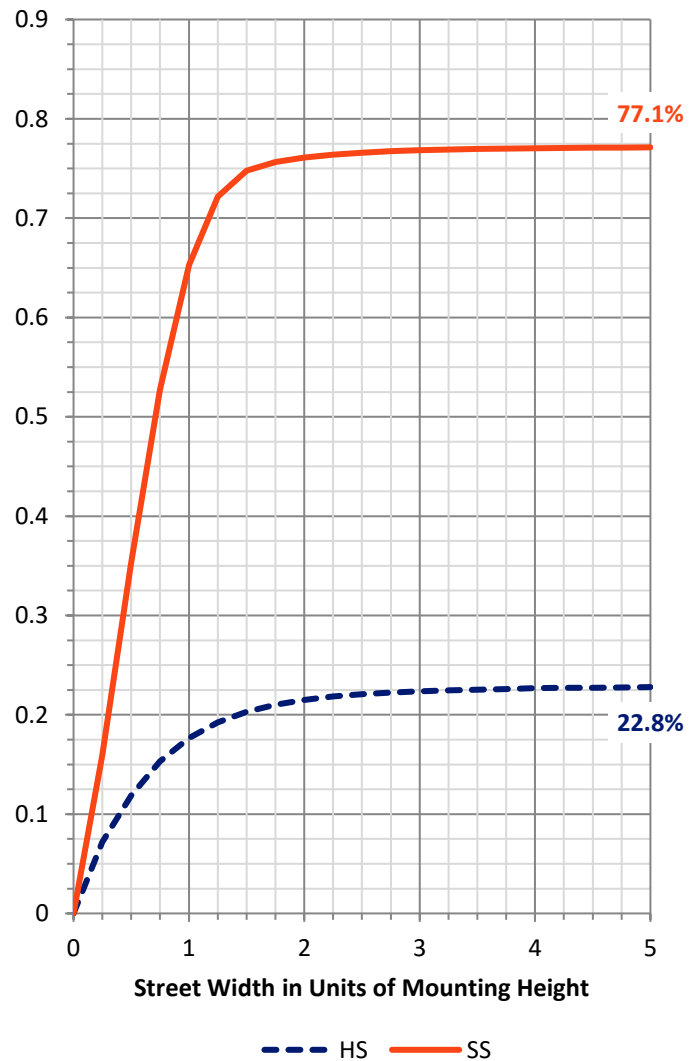
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3694.6	0.0	3694.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12431.4	0.0	12431.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	16126.0	0.0	16126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	1.6
10°-20°	987.1	6.1
20°-30°	1914.0	11.9
30°-40°	3170.8	19.7
40°-50°	4436.6	27.5
50°-60°	3742.8	23.2
60°-70°	1140.8	7.1
70°-80°	400.2	2.5
80°-90°	69.6	0.4
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°	16126.0	100.0
0°-180°	16126.0	100.0

Coefficient of Utilization



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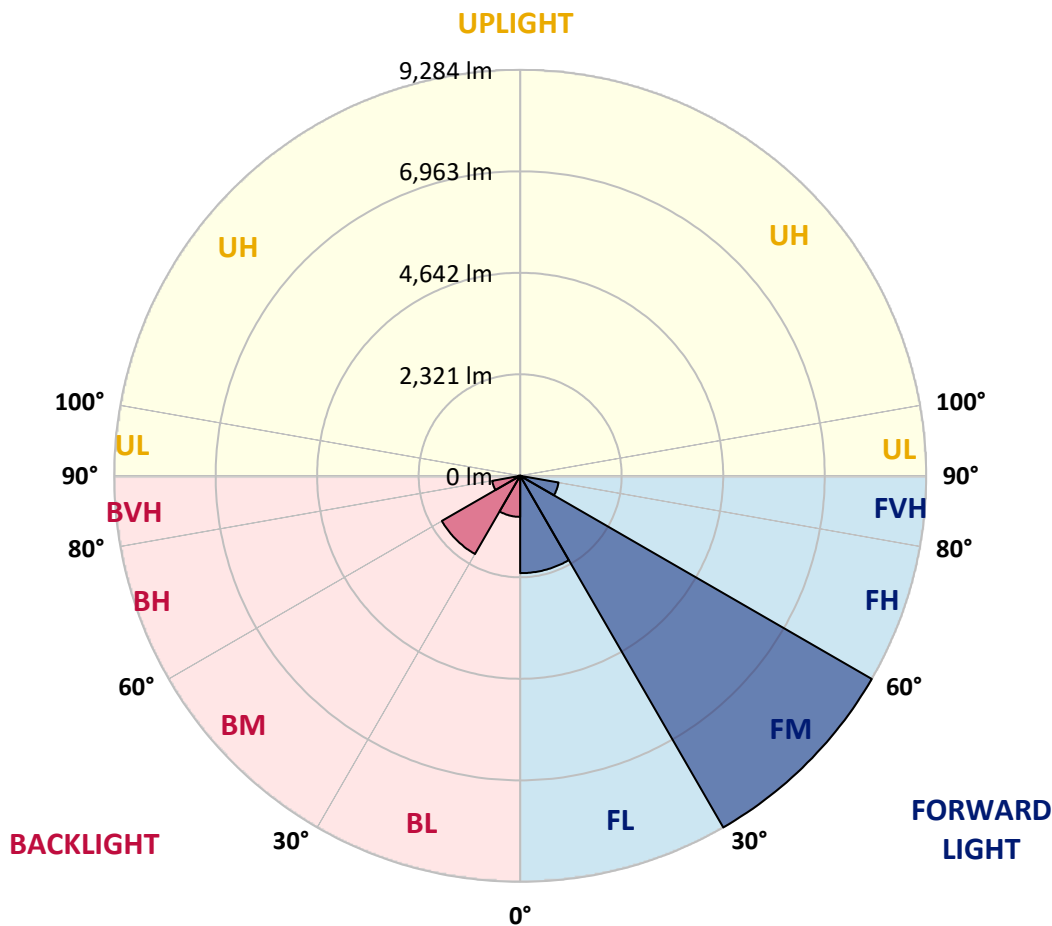
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2226.0	13.8			
FM	(30°-60°)	9284.2	57.6			
FH	(60°-80°)	890.1	5.5			G1/1800
FVH	(80°-90°)	31.2	0.2			G1/100
BL	(0°-30°)	939.2	5.8	B2/1000		
BM	(30°-60°)	2066.1	12.8	B2/2500		
BH	(60°-80°)	650.9	4.0	B2/1000		G2/1000
BVH	(80°-90°)	38.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9
2.5°	2887.4	2869.5	2815.6	2797.6	2733.8	2618.0	2578.1	2460.4	2410.5	2364.6	2310.7
5°	3651.7	3567.9	3561.9	3460.1	3312.4	3226.6	2971.2	2799.6	2642.0	2562.2	2414.5
7.5°	4138.6	4140.6	4140.6	4056.7	3939.0	3721.5	3492.0	3182.7	2945.3	2827.5	2576.1
10°	4601.5	4561.6	4539.6	4531.7	4451.8	4240.3	3994.9	3611.8	3286.5	3148.8	2697.8
12.5°	4928.8	4894.8	4944.7	4918.8	4860.9	4723.2	4491.7	4054.7	3647.7	3462.1	2893.4
15°	5084.4	5108.3	5148.3	5220.1	5194.1	5142.3	4886.8	4509.7	4036.8	3827.3	3067.0
17.5°	5323.8	5258.0	5305.9	5395.7	5467.5	5443.6	5297.9	4839.0	4421.9	4164.5	3300.5
20°	5491.5	5453.6	5477.5	5581.3	5635.1	5770.8	5695.0	5270.0	4791.1	4519.7	3575.8
22.5°	5970.4	5914.5	5836.7	5852.6	5872.6	5968.4	5986.3	5742.9	5220.1	4932.7	3837.2
25°	6561.0	6509.1	6417.4	6323.6	6265.7	6247.7	6309.6	6114.0	5631.1	5333.8	4118.6
27.5°	7211.5	7123.7	7065.9	6872.3	6716.7	6692.7	6662.8	6557.0	6118.0	5796.8	4435.9
30°	7844.1	7774.3	7696.4	7387.1	7225.5	7199.6	7051.9	7081.8	6646.8	6289.6	4795.1
32.5°	8323.0	8329.0	8151.4	7917.9	7766.3	7628.6	7574.7	7660.5	7325.3	7037.9	5196.1
35°	8710.1	8728.1	8558.5	8347.0	8183.3	8279.1	8255.2	8295.1	8135.4	7784.2	5663.1
37.5°	9087.3	8997.5	8815.9	8714.1	8628.3	8785.9	8989.5	9023.4	9053.3	8640.3	6205.8
40°	9149.1	9157.1	9051.3	9123.2	9015.4	9252.9	9725.8	9681.9	9803.6	9442.5	6794.5
42.5°	9061.3	9079.3	9121.2	9223.0	9482.4	9767.7	10470.1	10290.5	10438.2	10116.9	7367.2
45°	8917.6	8843.8	8895.7	9282.8	9731.8	10366.3	11150.6	11010.9	10963.0	10693.6	8049.6
47.5°	8231.2	8307.0	8468.7	8945.6	9620.0	10470.1	11633.5	11601.5	11745.2	11555.6	8670.2
50°	7279.4	7249.5	7560.7	8097.5	8967.5	10266.6	11607.5	11896.8	12206.1	11942.7	8947.6
52.5°	5451.6	5611.2	5878.6	6545.1	7786.2	9157.1	11040.8	11523.7	11775.1	11719.3	8724.1
55°	3446.1	3494.0	3655.7	4447.8	5565.3	7349.2	9464.4	10583.8	11032.8	11242.3	8518.6
57.5°	1674.2	1584.4	1781.9	2418.5	3214.7	4942.7	7299.3	9219.0	10194.7	10573.9	8071.6
60°	874.0	907.9	985.8	1213.2	1662.2	2566.1	4549.6	6144.0	7634.6	8217.2	6118.0
62.5°	724.3	736.3	788.2	901.9	1105.5	1476.6	2322.7	2995.2	3893.1	4417.9	3480.1
65°	614.6	620.6	676.5	752.3	882.0	1039.6	1195.3	1251.1	1514.5	1554.5	1237.2
67.5°	512.8	518.8	578.7	650.5	734.3	776.2	816.1	812.1	842.1	830.1	828.1
70°	395.1	401.1	462.9	538.8	580.7	556.7	680.4	708.4	720.4	730.3	746.3
72.5°	285.3	297.3	345.2	399.1	377.1	433.0	560.7	602.6	618.6	624.6	644.5
75°	207.5	211.5	223.5	207.5	239.5	301.3	395.1	447.0	466.9	472.9	502.9
77.5°	91.8	93.8	95.8	119.7	153.6	187.6	235.5	277.4	305.3	313.3	321.3
80°	47.9	49.9	61.9	81.8	109.7	137.7	171.6	195.6	213.5	215.5	223.5
82.5°	29.9	31.9	43.9	57.9	77.8	101.8	125.7	145.7	159.6	161.6	163.6
85°	14.0	18.0	25.9	35.9	51.9	65.8	67.8	57.9	61.9	63.9	59.9
87.5°	4.0	6.0	8.0	6.0	8.0	8.0	10.0	12.0	12.0	12.0	14.0
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°	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9	2244.9
2.5°	2280.8	2262.8	2193.0	2167.1	2099.2	2111.2	2075.3	2073.3	2065.3	2063.3	2061.3
5°	2336.7	2280.8	2197.0	2133.1	2095.2	2091.2	2065.3	2065.3	2073.3	2079.3	2065.3
7.5°	2428.5	2364.6	2222.9	2163.1	2129.1	2123.2	2105.2	2091.2	2109.2	2103.2	2087.2
10°	2534.2	2422.5	2272.8	2220.9	2165.1	2151.1	2151.1	2157.1	2127.1	2137.1	2121.2
12.5°	2651.9	2502.3	2336.7	2276.8	2211.0	2203.0	2199.0	2155.1	2171.0	2163.1	2123.2
15°	2801.6	2594.1	2418.5	2316.7	2260.8	2224.9	2173.0	2165.1	2155.1	2135.1	2117.2
17.5°	2963.2	2693.9	2456.4	2328.7	2244.9	2218.9	2179.0	2137.1	2107.2	2111.2	2097.2
20°	3100.9	2785.6	2470.4	2340.7	2232.9	2183.0	2121.2	2095.2	2063.3	2061.3	2059.3
22.5°	3264.5	2909.4	2490.3	2308.7	2197.0	2145.1	2103.2	2057.3	2035.4	2007.4	2021.4
25°	3460.1	2957.3	2494.3	2290.8	2171.0	2079.3	2057.3	2007.4	1999.4	1959.5	1967.5
27.5°	3601.8	2983.2	2462.4	2234.9	2111.2	2041.3	2001.4	1965.5	1951.5	1921.6	1913.6
30°	3791.3	3023.1	2394.5	2165.1	2051.3	1973.5	1949.6	1941.6	1901.7	1869.7	1865.7
32.5°	4006.9	3049.0	2350.6	2093.2	1989.5	1929.6	1941.6	1903.7	1853.8	1825.8	1817.9
35°	4178.5	3059.0	2240.9	2011.4	1947.6	1909.6	1895.7	1887.7	1815.9	1789.9	1770.0
37.5°	4439.9	3037.1	2149.1	1953.5	1901.7	1887.7	1875.7	1821.8	1740.0	1702.1	1674.2
40°	4745.2	3031.1	2031.4	1871.7	1857.8	1873.7	1837.8	1754.0	1640.3	1598.4	1578.4
42.5°	5038.5	3073.0	1957.5	1827.8	1809.9	1815.9	1766.0	1640.3	1584.4	1560.4	1528.5
45°	5529.4	3160.8	1835.8	1760.0	1752.0	1748.0	1688.1	1556.4	1524.5	1494.6	1488.6
47.5°	5972.4	3102.9	1758.0	1690.1	1698.1	1676.2	1548.5	1506.6	1470.6	1440.7	1430.7
50°	5998.3	2965.2	1648.2	1636.3	1638.3	1600.3	1478.6	1450.7	1404.8	1384.8	1370.9
52.5°	5862.6	2739.7	1546.5	1550.5	1556.4	1494.6	1392.8	1372.9	1335.0	1307.0	1299.0
55°	5481.5	2388.5	1446.7	1462.7	1478.6	1360.9	1329.0	1279.1	1249.1	1209.2	1211.2
57.5°	4829.0	1923.6	1307.0	1333.0	1366.9	1237.2	1213.2	1151.4	1107.5	1075.5	1071.6
60°	3236.6	1368.9	1097.5	1107.5	1183.3	1131.4	1129.4	1067.6	1007.7	979.8	963.8
62.5°	1909.6	1045.6	947.8	937.9	935.9	965.8	1015.7	993.7	915.9	862.0	878.0
65°	999.7	903.9	882.0	848.1	828.1	820.1	858.0	868.0	816.1	758.3	754.3
67.5°	840.1	840.1	822.1	810.2	782.2	748.3	724.3	692.4	684.4	668.5	648.5
70°	764.3	784.2	778.2	750.3	726.3	688.4	626.6	574.7	524.8	506.8	518.8
72.5°	666.5	686.4	686.4	672.5	640.5	582.7	522.8	462.9	421.0	389.1	385.1
75°	512.8	522.8	546.8	530.8	488.9	453.0	391.1	329.2	289.3	259.4	253.4
77.5°	327.3	343.2	343.2	341.2	311.3	277.4	237.5	193.6	163.6	141.7	135.7
80°	217.5	227.5	235.5	227.5	207.5	181.6	151.7	121.7	99.8	81.8	77.8
82.5°	159.6	171.6	177.6	169.6	149.7	129.7	107.8	85.8	63.9	49.9	45.9
85°	61.9	63.9	71.8	85.8	83.8	81.8	65.8	47.9	35.9	25.9	23.9
87.5°	16.0	14.0	16.0	16.0	14.0	12.0	12.0	12.0	12.0	6.0	8.0
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)