

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: P651307

Luminaire Tested: **GALN-SA3D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651307
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-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 17066.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

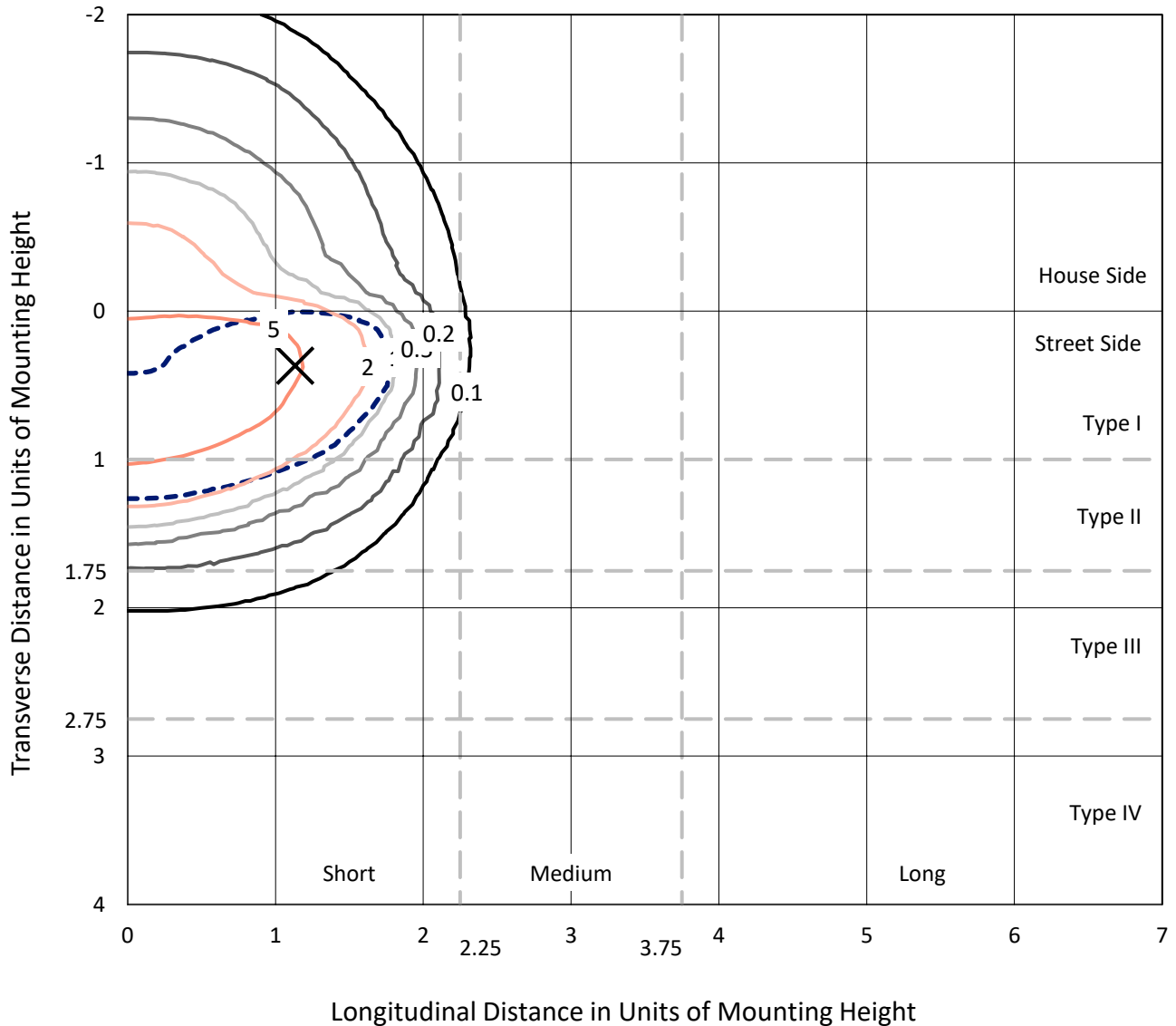
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

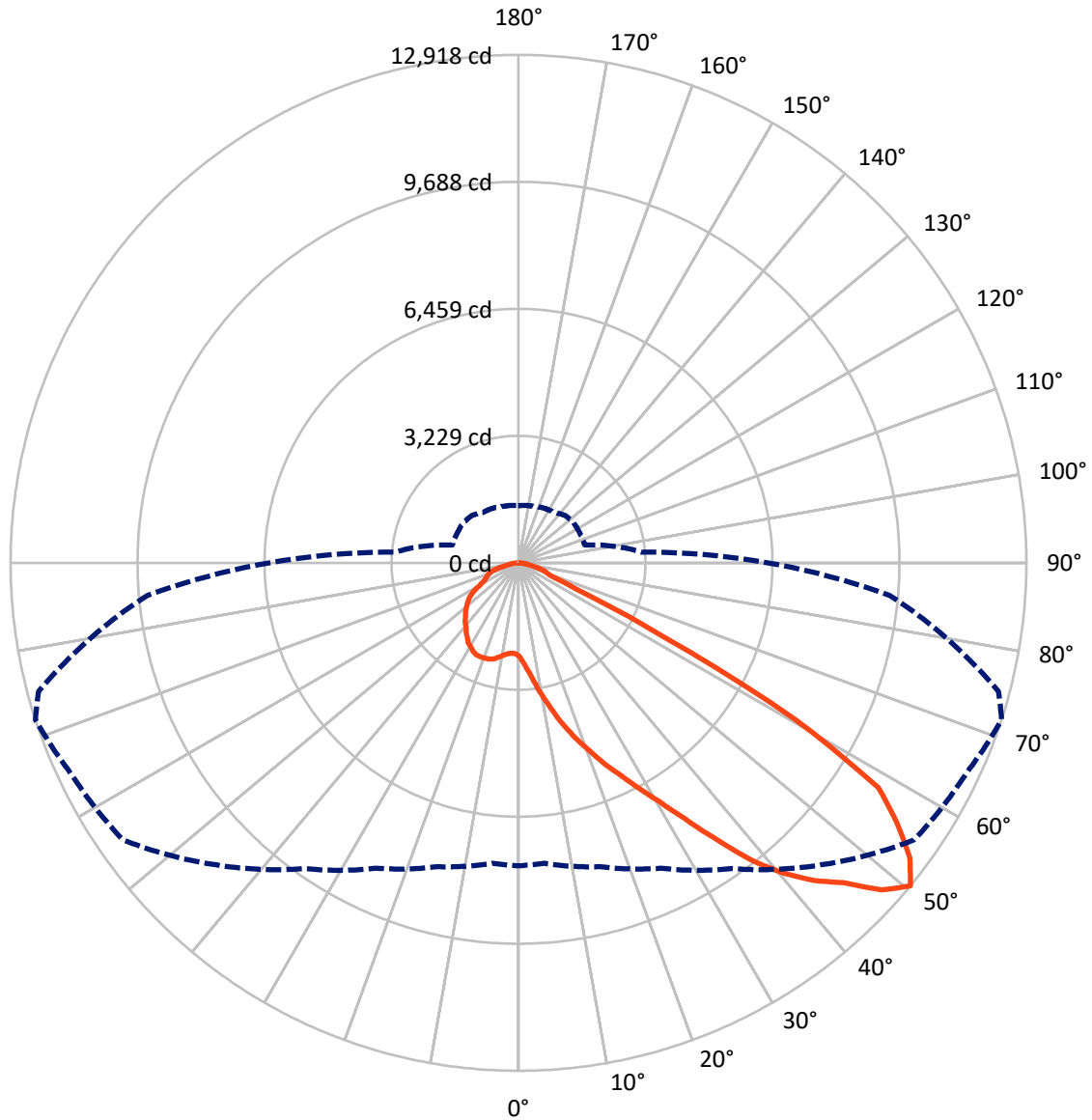
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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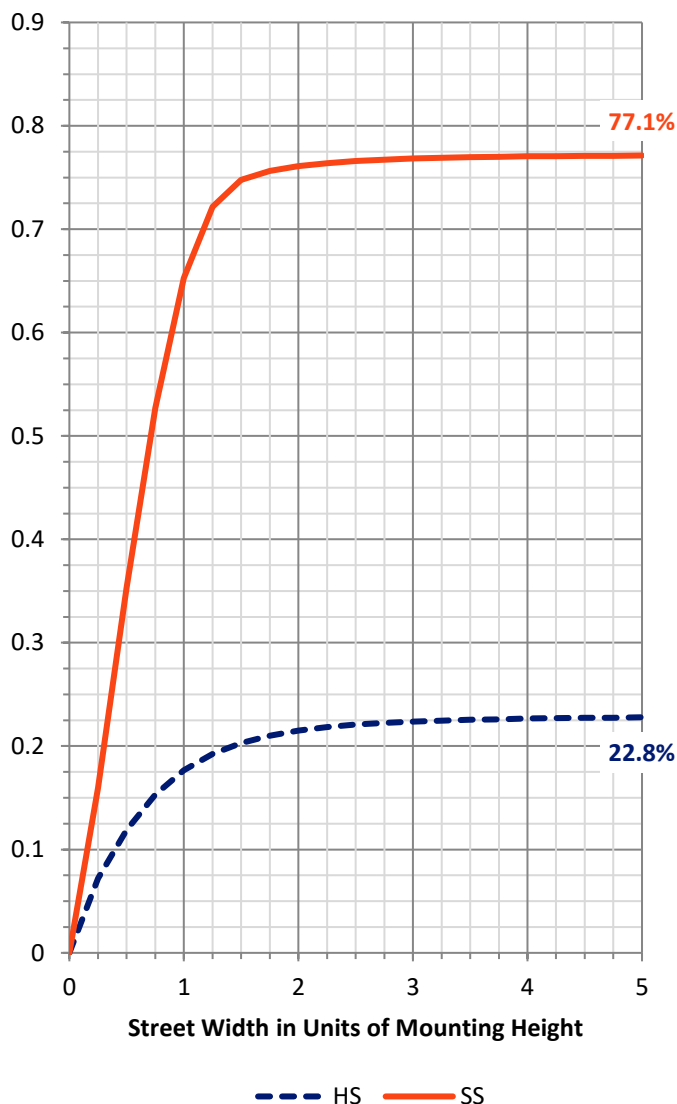
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3910.0	0.0	3910.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13156.4	0.0	13156.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	17066.4	0.0	17066.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	1.6
10°-20°	1044.7	6.1
20°-30°	2025.6	11.9
30°-40°	3355.7	19.7
40°-50°	4695.3	27.5
50°-60°	3961.1	23.2
60°-70°	1207.3	7.1
70°-80°	423.6	2.5
80°-90°	73.6	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°	17066.4	100.0
0°-180°	17066.4	100.0

Coefficient of Utilization

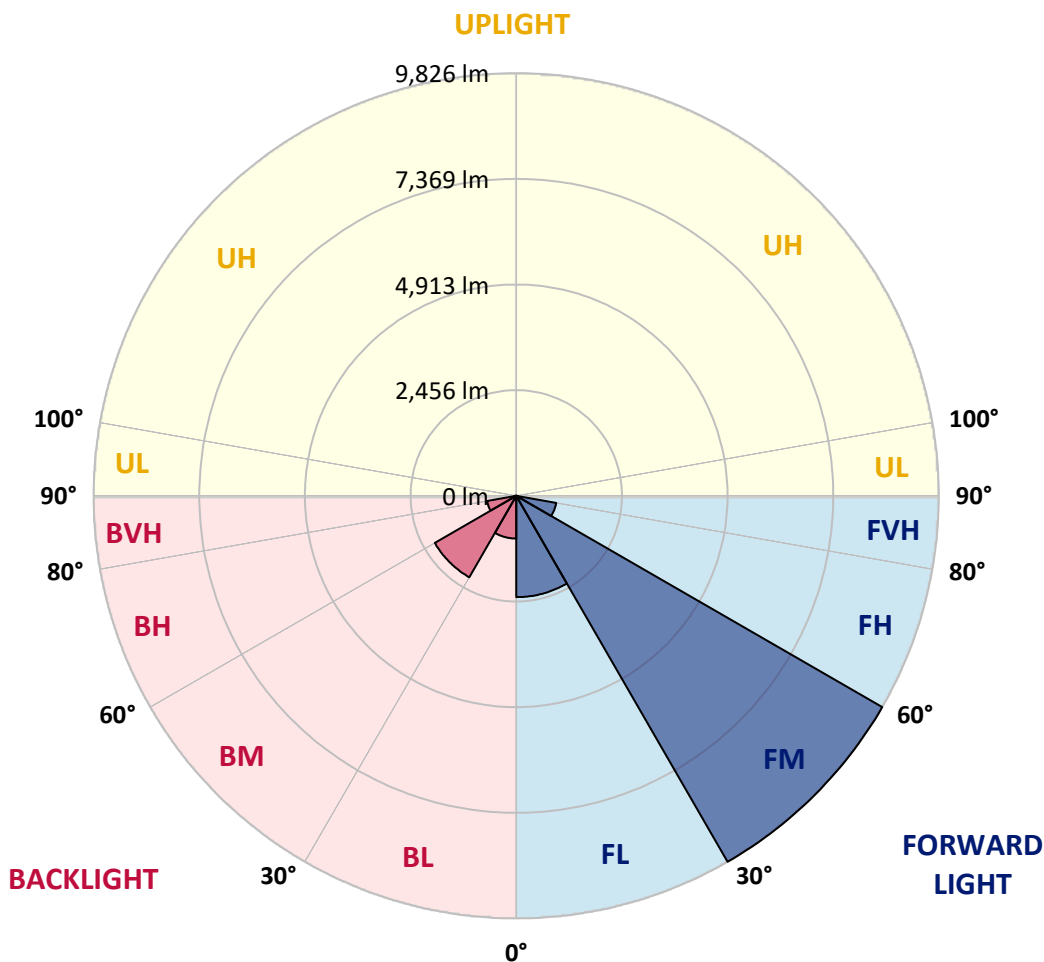


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.8	13.8			
FM (30°-60°)	9825.6	57.6			
FH (60°-80°)	942.0	5.5			G1/1800
FVH (80°-90°)	33.0	0.2			G1/100
BL (0°-30°)	993.9	5.8	B2/1000		
BM (30°-60°)	2186.5	12.8	B2/2500		
BH (60°-80°)	688.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	40.7	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°	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	3055.8	3036.8	2979.7	2960.7	2893.2	2770.7	2728.5	2603.9	2551.1	2502.5	2445.5
5°	3864.6	3775.9	3769.6	3661.9	3505.6	3414.8	3144.5	2962.8	2796.1	2711.6	2555.3
7.5°	4379.9	4382.0	4382.0	4293.3	4168.8	3938.6	3695.7	3368.4	3117.0	2992.4	2726.4
10°	4869.8	4827.6	4804.4	4795.9	4711.5	4487.6	4227.9	3822.3	3478.1	3332.5	2855.2
12.5°	5216.2	5180.3	5233.0	5205.6	5144.4	4998.7	4753.7	4291.2	3860.4	3664.0	3062.2
15°	5380.9	5406.3	5448.5	5524.5	5497.0	5442.1	5171.8	4772.7	4272.2	4050.4	3245.8
17.5°	5634.3	5564.6	5615.3	5710.3	5786.3	5761.0	5606.9	5121.2	4679.7	4407.3	3492.9
20°	5811.7	5771.6	5796.9	5906.8	5963.8	6107.3	6027.1	5577.3	5070.5	4783.3	3784.3
22.5°	6318.5	6259.4	6177.1	6194.0	6215.1	6316.4	6335.4	6077.8	5524.5	5220.4	4061.0
25°	6943.6	6888.7	6791.6	6692.3	6631.1	6612.1	6677.5	6470.6	5959.6	5644.9	4358.8
27.5°	7632.1	7539.1	7477.9	7273.1	7108.4	7083.0	7051.4	6939.4	6474.9	6134.8	4694.5
30°	8301.5	8227.6	8145.3	7817.9	7646.9	7619.5	7463.1	7494.8	7034.5	6656.4	5074.7
32.5°	8808.4	8814.7	8626.7	8379.6	8219.2	8073.4	8016.4	8107.2	7752.5	7448.4	5499.1
35°	9218.0	9237.0	9057.6	8833.7	8660.5	8761.9	8736.6	8778.8	8609.9	8238.2	5993.3
37.5°	9617.2	9522.1	9330.0	9222.3	9131.5	9298.3	9513.7	9549.6	9581.3	9144.2	6567.7
40°	9682.7	9691.1	9579.2	9655.2	9541.1	9792.5	10293.0	10246.5	10375.3	9993.1	7190.7
42.5°	9589.8	9608.8	9653.1	9760.8	10035.3	10337.3	11080.7	10890.6	11046.9	10706.9	7796.8
45°	9437.7	9359.6	9414.5	9824.1	10299.3	10970.8	11800.8	11653.0	11602.3	11317.2	8519.1
47.5°	8711.2	8791.5	8962.5	9467.2	10181.1	11080.7	12311.9	12278.1	12430.1	12229.5	9175.8
50°	7703.9	7672.2	8001.7	8569.7	9490.5	10865.3	12284.4	12590.6	12917.9	12639.2	9469.4
52.5°	5769.5	5938.4	6221.4	6926.7	8240.3	9691.1	11684.7	12195.8	12461.8	12402.6	9232.8
55°	3647.1	3697.8	3868.9	4707.2	5889.9	7777.8	10016.3	11201.0	11676.2	11898.0	9015.4
57.5°	1771.8	1676.8	1885.9	2559.5	3402.1	5230.9	7725.0	9756.6	10789.3	11190.5	8542.3
60°	925.0	960.8	1043.3	1284.0	1759.1	2715.8	4814.9	6502.3	8079.8	8696.4	6474.9
62.5°	766.6	779.3	834.2	954.5	1169.9	1562.7	2458.2	3169.8	4120.1	4675.5	3683.0
65°	650.4	656.7	715.9	796.2	933.4	1100.3	1264.9	1324.1	1602.9	1645.1	1309.4
67.5°	542.7	549.1	612.4	688.4	777.2	821.5	863.7	859.5	891.2	878.5	876.4
70°	418.1	424.5	490.0	570.2	614.5	589.2	720.1	749.7	762.4	773.0	789.8
72.5°	302.0	314.7	365.3	422.4	399.1	458.3	593.4	637.7	654.6	661.0	682.1
75°	219.7	223.9	236.5	219.7	253.4	318.9	418.1	473.1	494.2	500.5	532.2
77.5°	97.1	99.2	101.3	126.7	162.6	198.5	249.2	293.5	323.1	331.5	340.0
80°	50.7	52.8	65.4	86.6	116.1	145.7	181.7	207.0	226.0	228.1	236.5
82.5°	31.7	33.8	46.4	61.2	82.3	107.7	133.0	154.2	169.0	171.1	173.2
85°	14.8	19.0	27.4	38.0	54.9	69.7	71.8	61.2	65.4	67.6	63.3
87.5°	4.2	6.3	8.4	6.3	8.4	8.4	10.6	12.7	12.7	12.7	14.8
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°	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	2413.8	2394.8	2320.9	2293.4	2221.7	2234.3	2196.3	2194.2	2185.8	2183.7	2181.5
5°	2473.0	2413.8	2325.1	2257.5	2217.4	2213.2	2185.8	2185.8	2194.2	2200.5	2185.8
7.5°	2570.1	2502.5	2352.5	2289.2	2253.3	2247.0	2228.0	2213.2	2232.2	2225.9	2209.0
10°	2682.0	2563.7	2405.3	2350.4	2291.3	2276.5	2276.5	2282.9	2251.2	2261.8	2244.9
12.5°	2806.6	2648.2	2473.0	2409.5	2339.9	2331.4	2327.2	2280.8	2297.6	2289.2	2247.0
15°	2964.9	2745.4	2559.5	2451.9	2392.6	2354.6	2299.8	2291.3	2280.8	2259.6	2240.6
17.5°	3136.0	2851.0	2599.6	2464.5	2375.8	2348.3	2306.1	2261.8	2230.1	2234.3	2219.5
20°	3281.8	2948.1	2614.4	2477.2	2363.1	2310.3	2244.9	2217.4	2183.7	2181.5	2179.4
22.5°	3454.9	3079.0	2635.5	2443.4	2325.1	2270.2	2225.9	2177.3	2154.1	2124.5	2139.3
25°	3661.9	3129.7	2639.7	2424.4	2297.6	2200.5	2177.3	2124.5	2116.0	2073.8	2082.2
27.5°	3811.8	3157.2	2606.0	2365.2	2234.3	2160.4	2118.1	2080.1	2065.3	2033.7	2025.2
30°	4012.4	3199.4	2534.2	2291.3	2171.0	2088.6	2063.2	2054.8	2012.6	1978.8	1974.6
32.5°	4240.5	3226.8	2487.7	2215.3	2105.4	2042.1	2054.8	2014.7	1961.9	1932.3	1923.9
35°	4422.1	3237.4	2371.5	2128.7	2061.1	2021.0	2006.2	1997.8	1921.8	1894.3	1873.2
37.5°	4698.8	3214.2	2274.4	2067.4	2012.6	1997.8	1985.1	1928.1	1841.5	1801.3	1771.8
40°	5021.9	3207.8	2149.8	1980.9	1966.1	1983.0	1945.0	1856.3	1735.9	1691.6	1670.5
42.5°	5332.4	3252.2	2071.7	1934.4	1915.4	1921.8	1869.0	1735.9	1676.8	1651.5	1617.7
45°	5851.8	3345.1	1942.9	1862.6	1854.2	1849.9	1786.6	1647.2	1613.5	1581.8	1575.4
47.5°	6320.6	3283.9	1860.5	1788.7	1797.1	1773.9	1638.8	1594.5	1556.4	1524.7	1514.1
50°	6348.1	3138.2	1744.3	1731.7	1733.8	1693.7	1564.8	1535.3	1486.7	1465.6	1450.8
52.5°	6204.5	2899.5	1636.7	1640.9	1647.2	1581.8	1474.0	1452.9	1412.8	1383.3	1374.8
55°	5801.1	2527.9	1531.0	1547.9	1564.8	1440.3	1406.5	1353.7	1322.0	1279.7	1281.9
57.5°	5110.6	2035.8	1383.3	1410.7	1446.6	1309.4	1284.0	1218.5	1172.0	1138.3	1134.0
60°	3425.4	1448.7	1161.5	1172.0	1252.3	1197.4	1195.3	1129.8	1066.5	1036.9	1020.0
62.5°	2021.0	1106.6	1003.1	992.5	990.4	1022.2	1074.9	1051.7	969.3	912.3	929.2
65°	1058.0	956.6	933.4	897.5	876.4	868.0	908.1	918.6	863.7	802.5	798.3
67.5°	889.1	889.1	870.1	857.4	827.8	792.0	766.6	732.8	724.4	707.4	686.3
70°	808.8	830.0	823.6	794.1	768.7	728.6	663.1	608.2	555.4	536.4	549.1
72.5°	705.3	726.5	726.5	711.7	677.9	616.6	553.3	490.0	445.6	411.8	407.5
75°	542.7	553.3	578.6	561.7	517.4	479.4	413.9	348.4	306.2	274.5	268.2
77.5°	346.3	363.2	363.2	361.1	329.4	293.5	251.3	204.9	173.2	150.0	143.6
80°	230.2	240.8	249.2	240.8	219.7	192.2	160.5	128.8	105.6	86.6	82.3
82.5°	169.0	181.7	188.0	179.5	158.4	137.3	114.0	90.8	67.6	52.8	48.6
85°	65.4	67.6	76.0	90.8	88.7	86.6	69.7	50.7	38.0	27.4	25.3
87.5°	16.9	14.8	16.9	16.9	14.8	12.7	12.7	12.7	12.7	6.3	8.4
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)