

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: P652516

Luminaire Tested: **GALN-SA7B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22044.3 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

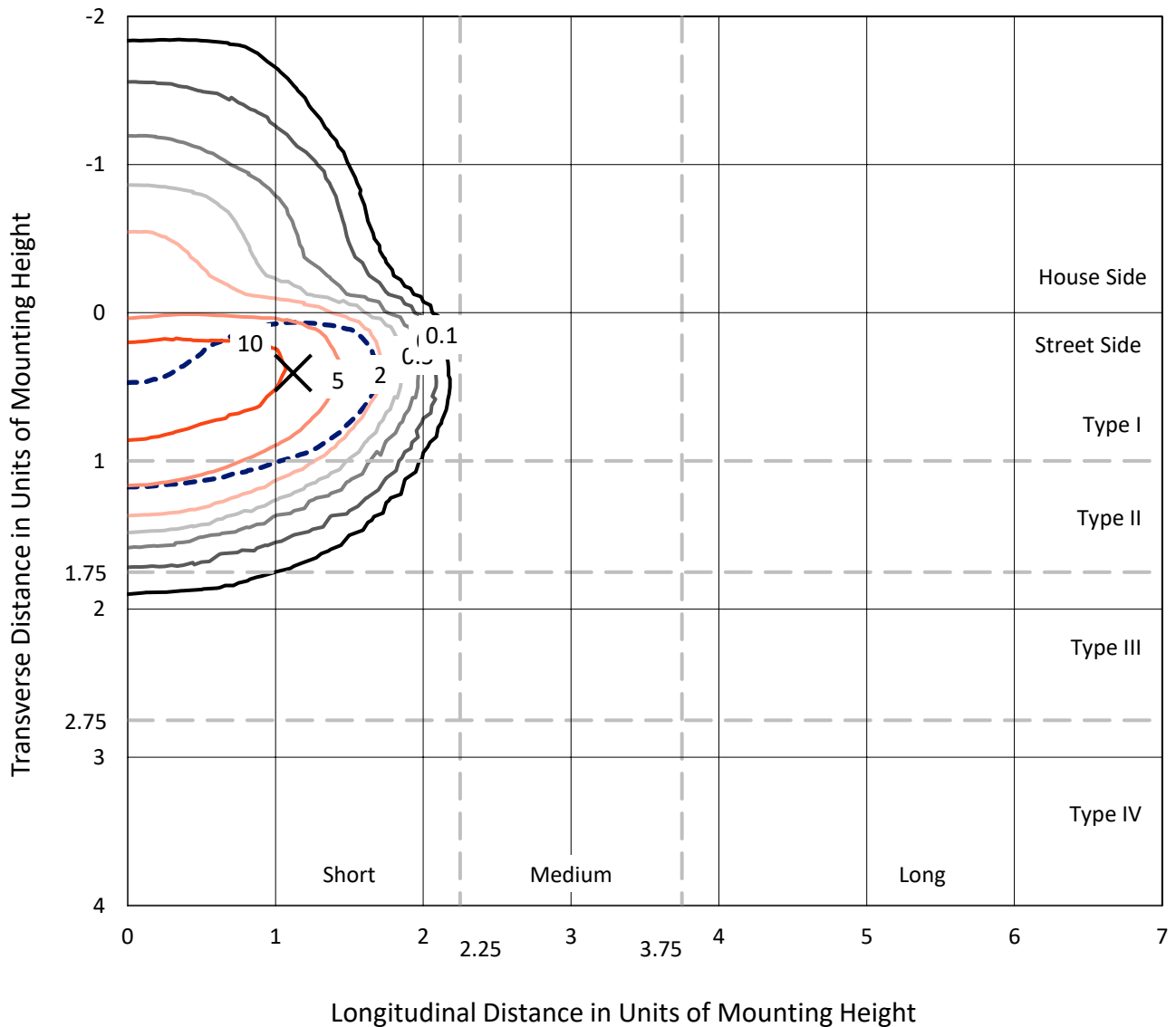
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

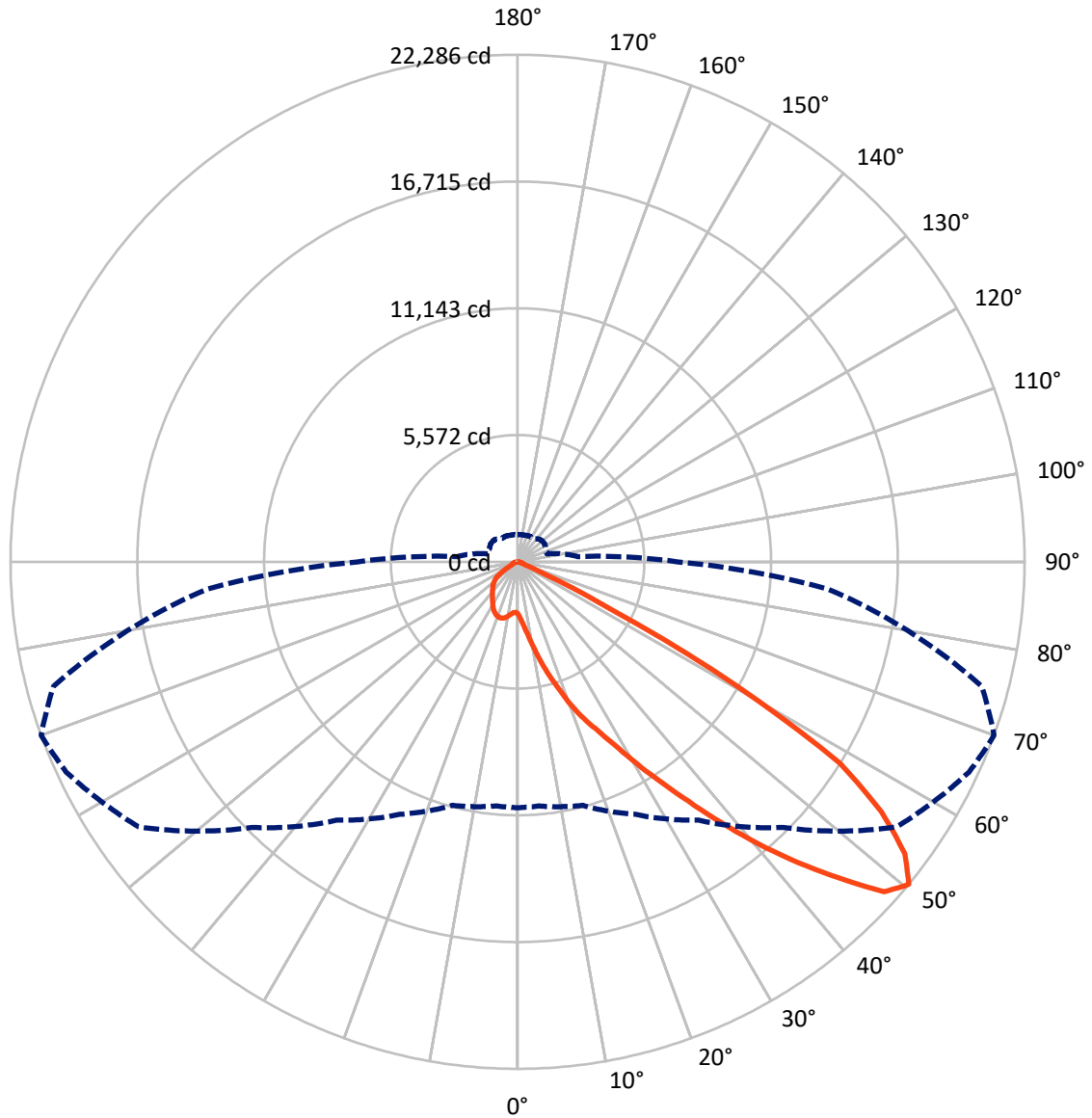
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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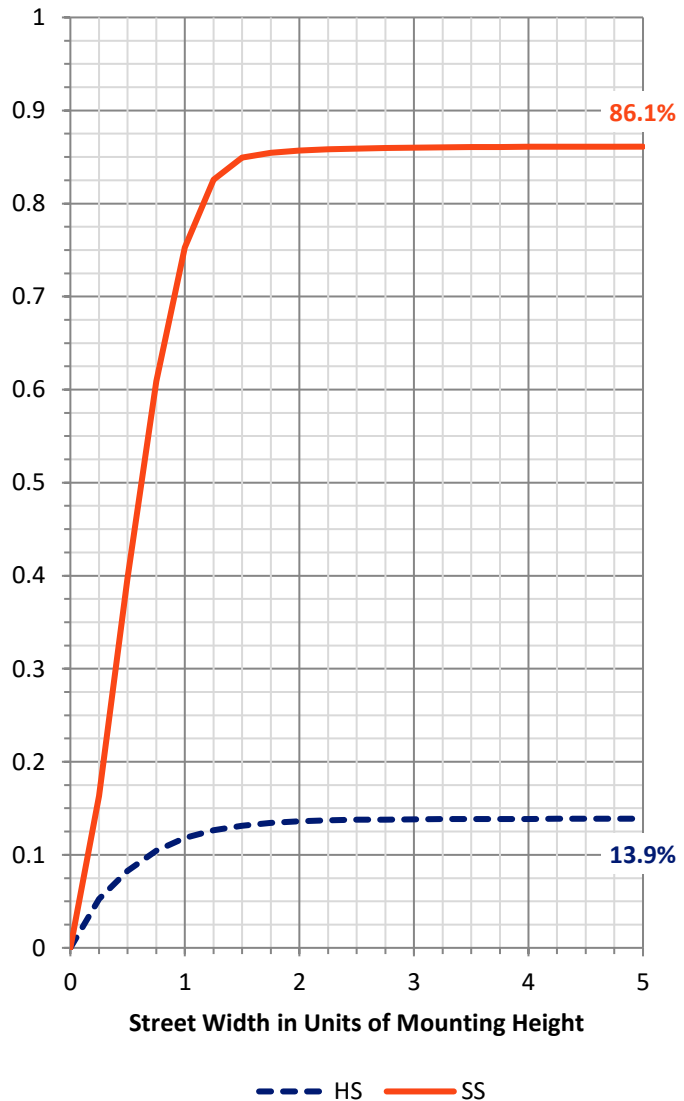
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3078.6	0.0	3078.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18965.6	0.0	18965.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	22044.3	0.0	22044.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	1.3
10°-20°	1284.4	5.8
20°-30°	2694.4	12.2
30°-40°	4644.2	21.1
40°-50°	6787.5	30.8
50°-60°	5286.3	24.0
60°-70°	895.7	4.1
70°-80°	123.0	0.6
80°-90°	31.9	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°	22044.3	100.0
0°-180°	22044.3	100.0

Coefficient of Utilization

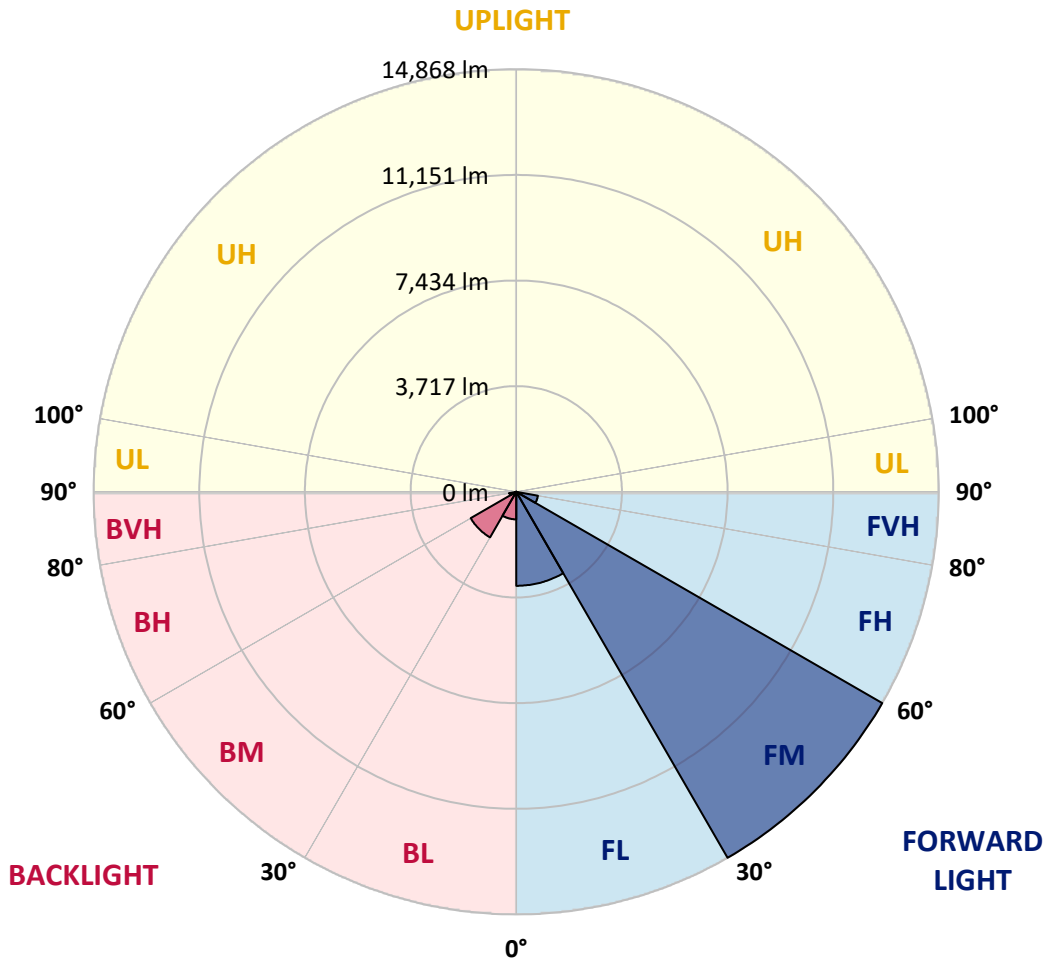


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.9	15.0			
FM (30°-60°)	14868.5	67.4			
FH (60°-80°)	775.5	3.5			G1/1800
FVH (80°-90°)	14.7	0.1			G1/100
BL (0°-30°)	968.8	4.4	B2/1000		
BM (30°-60°)	1849.5	8.4	B2/2500		
BH (60°-80°)	243.2	1.1	B1/500		G1/500
BVH (80°-90°)	17.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3
2.5°	2990.1	2968.4	2921.2	2834.3	2798.0	2711.0	2660.3	2562.4	2500.8	2431.9	2355.8
5°	4211.6	4099.2	4030.3	3932.4	3646.2	3468.5	3174.9	2924.8	2808.9	2682.0	2508.0
7.5°	5472.8	5400.3	5306.1	5095.9	4900.2	4530.5	4026.7	3475.8	3240.2	3022.7	2678.4
10°	6516.7	6313.6	6302.8	6147.0	5933.1	5490.9	4885.6	4200.6	3780.2	3461.3	2921.2
12.5°	7245.1	7060.3	7143.6	7125.5	6926.1	6520.3	5820.7	4914.6	4476.1	3979.5	3171.3
15°	7908.3	7832.2	7806.9	7785.1	7705.4	7404.6	6777.5	5784.5	5150.2	4552.2	3454.0
17.5°	8557.2	8361.4	8455.7	8473.7	8466.5	8194.7	7607.5	6610.8	5864.2	5157.5	3751.2
20°	9133.4	9151.5	9024.7	8999.3	8977.6	8966.7	8394.0	7430.0	6741.4	5791.7	4139.1
22.5°	9872.8	9745.9	9858.3	9785.8	9644.4	9557.5	9118.9	8154.8	7502.5	6556.5	4534.1
25°	10746.3	10847.7	10583.1	10554.2	10398.3	10097.5	9702.4	8966.7	8234.6	7266.8	4961.7
27.5°	11822.7	11645.1	11576.3	11416.7	11134.1	11007.3	10543.3	9804.0	9118.9	8013.5	5374.9
30°	12747.0	12699.8	12355.5	12167.0	11920.6	11917.0	11268.1	10938.4	10271.5	9184.1	5943.9
32.5°	13500.8	13294.2	13167.4	13036.8	12837.5	12891.9	12344.6	12170.6	11500.2	10271.5	6614.5
35°	14004.6	13856.0	13779.9	13580.6	13522.5	13765.4	13537.1	13464.6	12913.6	11801.0	7401.0
37.5°	14164.0	14211.1	14196.7	13946.6	14069.8	14725.8	15019.4	14831.0	14541.0	13413.8	8252.7
40°	14305.4	14338.0	14265.5	14559.1	14910.7	15657.3	16719.2	16407.6	16298.8	15048.4	9437.9
42.5°	14385.1	14359.7	14359.7	14867.2	15400.0	16900.5	18361.0	18154.5	18071.2	16788.1	10807.9
45°	14040.8	13794.3	14058.9	14747.6	15820.4	17513.0	19673.1	19959.5	19839.8	18857.6	12409.9
47.5°	12754.2	12906.4	13055.0	13975.6	15309.3	17324.5	20477.7	21452.6	21673.7	20597.3	13460.9
50°	10807.9	10775.2	11083.4	12243.1	13863.2	16512.6	20321.8	21884.0	22286.2	21119.2	13682.0
52.5°	7861.2	8100.5	8433.9	9586.5	11507.4	14410.5	18310.3	20771.3	21307.7	20477.7	13537.1
55°	4577.6	4313.0	5063.2	6038.2	7850.4	10869.5	15479.7	18411.8	19404.9	19310.6	12804.9
57.5°	1834.0	1775.9	2033.3	2740.1	4095.5	6737.7	11257.3	15128.2	16719.2	17686.9	11253.7
60°	804.6	786.5	924.2	1116.3	1674.4	3106.1	6157.8	9408.9	11068.8	12359.1	7745.3
62.5°	579.9	572.6	641.5	710.4	884.3	1351.9	2587.8	3791.1	4726.2	5708.4	3468.5
65°	467.5	485.7	532.8	569.0	652.4	750.3	913.3	1054.7	1293.9	1341.1	764.7
67.5°	380.6	395.0	438.6	478.4	492.9	406.0	420.4	369.7	369.7	329.8	264.6
70°	279.0	282.7	333.5	380.6	304.4	163.1	286.4	286.4	257.3	246.5	224.7
72.5°	206.5	210.2	250.1	235.6	119.6	101.5	210.2	231.9	210.2	199.3	181.2
75°	152.2	155.8	130.4	54.3	50.7	65.3	123.2	159.5	152.2	148.6	137.8
77.5°	29.0	21.8	18.1	25.4	36.2	54.3	79.7	97.9	101.5	108.7	101.5
80°	3.6	3.6	10.8	21.8	39.9	58.0	83.3	94.2	97.9	101.5	94.2
82.5°	0.0	3.6	10.8	21.8	39.9	54.3	72.5	83.3	90.6	94.2	90.6
85°	0.0	3.6	7.2	18.1	32.6	39.9	36.2	25.4	21.8	25.4	18.1
87.5°	0.0	0.0	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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°	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3	2283.3
2.5°	2312.3	2297.9	2247.2	2192.7	2145.6	2167.3	2145.6	2127.5	2134.8	2127.5	2120.2
5°	2439.2	2374.0	2265.2	2218.1	2178.3	2174.7	2163.7	2160.1	2163.7	2163.7	2131.1
7.5°	2558.8	2453.7	2337.7	2287.0	2239.8	2243.5	2218.1	2218.1	2214.5	2196.4	2189.1
10°	2740.1	2598.7	2450.1	2359.4	2301.5	2290.6	2265.2	2239.8	2239.8	2239.8	2203.6
12.5°	2939.4	2761.8	2558.8	2453.7	2384.8	2330.5	2290.6	2283.3	2243.5	2236.2	2218.1
15°	3113.3	2888.6	2631.3	2486.3	2399.4	2326.9	2265.2	2225.4	2207.2	2196.4	2181.9
17.5°	3283.7	2997.3	2671.2	2486.3	2392.1	2308.7	2243.5	2207.2	2163.7	2171.0	2142.0
20°	3512.0	3113.3	2682.0	2439.2	2323.3	2243.5	2156.5	2138.4	2113.0	2091.2	2098.5
22.5°	3733.1	3196.7	2649.4	2381.2	2214.5	2120.2	2076.8	2055.0	2044.1	2026.1	2000.7
25°	3932.4	3287.3	2598.7	2276.1	2098.5	2029.7	1989.8	1986.2	1960.8	1960.8	1913.7
27.5°	4135.4	3319.9	2511.7	2152.9	1997.0	1957.2	1939.0	1931.8	1920.9	1895.5	1862.9
30°	4367.4	3330.8	2384.8	2026.1	1906.4	1862.9	1888.3	1906.4	1859.3	1812.2	1826.7
32.5°	4559.5	3305.5	2232.6	1906.4	1841.2	1819.4	1870.2	1888.3	1834.0	1783.2	1757.9
35°	4791.4	3243.8	2084.0	1812.2	1775.9	1819.4	1862.9	1862.9	1754.2	1692.6	1678.0
37.5°	5143.0	3174.9	1946.3	1732.5	1707.1	1797.7	1855.7	1815.8	1645.5	1569.4	1551.2
40°	5519.9	3131.5	1812.2	1652.7	1670.8	1761.5	1794.1	1670.8	1496.9	1449.7	1435.3
42.5°	6067.2	3044.5	1692.6	1583.9	1638.2	1710.7	1710.7	1489.6	1424.4	1399.0	1395.4
45°	6748.6	2982.9	1587.5	1525.8	1591.1	1609.3	1551.2	1395.4	1348.3	1341.1	1344.7
47.5°	7082.1	2863.3	1478.7	1457.0	1504.1	1507.7	1355.5	1319.3	1279.4	1268.6	1261.2
50°	7031.3	2649.4	1337.4	1366.4	1431.6	1395.4	1235.9	1243.2	1206.9	1203.3	1185.1
52.5°	6676.1	2312.3	1196.1	1264.9	1337.4	1232.3	1138.0	1130.8	1130.8	1083.7	1065.5
55°	5918.6	1862.9	1025.7	1112.6	1199.7	1036.5	1011.2	1004.0	985.8	942.3	931.5
57.5°	4686.3	1366.4	772.0	866.2	1018.5	880.7	877.1	844.4	797.4	764.7	764.7
60°	2787.2	786.5	485.7	529.2	674.1	714.0	793.7	779.3	699.5	648.7	634.3
62.5°	1272.2	406.0	308.1	315.3	362.5	463.9	623.4	721.2	608.9	521.9	514.7
65°	427.6	300.8	253.7	242.8	250.1	279.0	373.3	511.1	485.7	402.3	387.8
67.5°	261.0	268.2	239.2	221.1	221.1	217.5	213.9	231.9	286.4	279.0	282.7
70°	224.7	246.5	221.1	199.3	192.1	181.2	152.2	126.8	108.7	126.8	134.1
72.5°	181.2	195.7	188.5	170.4	152.2	137.8	108.7	83.3	61.6	54.3	54.3
75°	134.1	145.0	152.2	130.4	116.0	97.9	79.7	54.3	32.6	21.8	21.8
77.5°	97.9	108.7	112.4	101.5	87.0	68.9	50.7	36.2	18.1	7.2	7.2
80°	83.3	97.9	108.7	101.5	90.6	65.3	47.1	25.4	14.5	3.6	3.6
82.5°	79.7	97.9	108.7	97.9	87.0	61.6	47.1	29.0	10.8	3.6	3.6
85°	18.1	25.4	32.6	39.9	47.1	47.1	36.2	21.8	10.8	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	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)