

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: P648171

Luminaire Tested: **GALN-SA9A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648171
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-SA9A-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA 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: 21469 lumens
Efficiency: N/A
Efficacy: 78.4 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

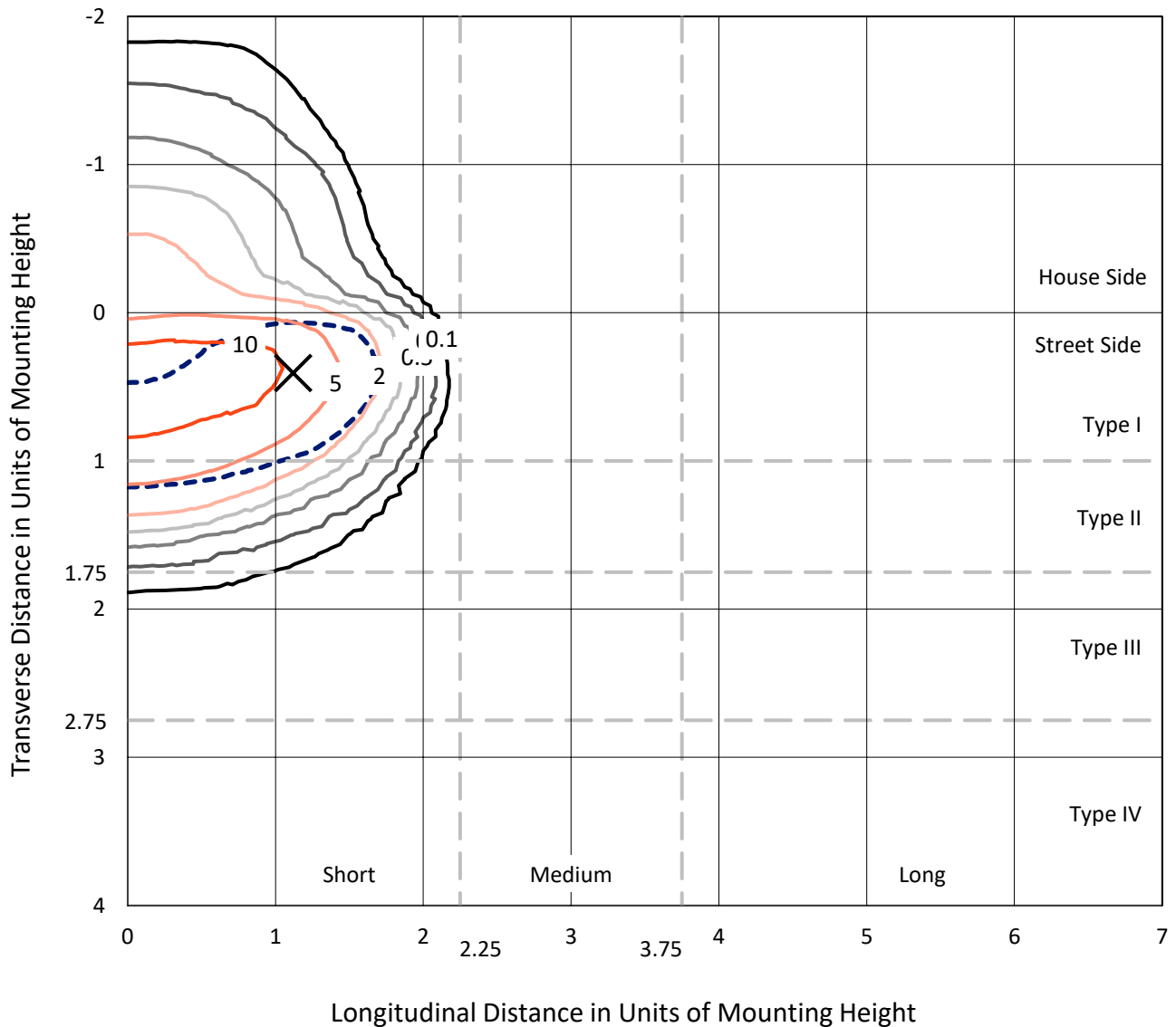
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

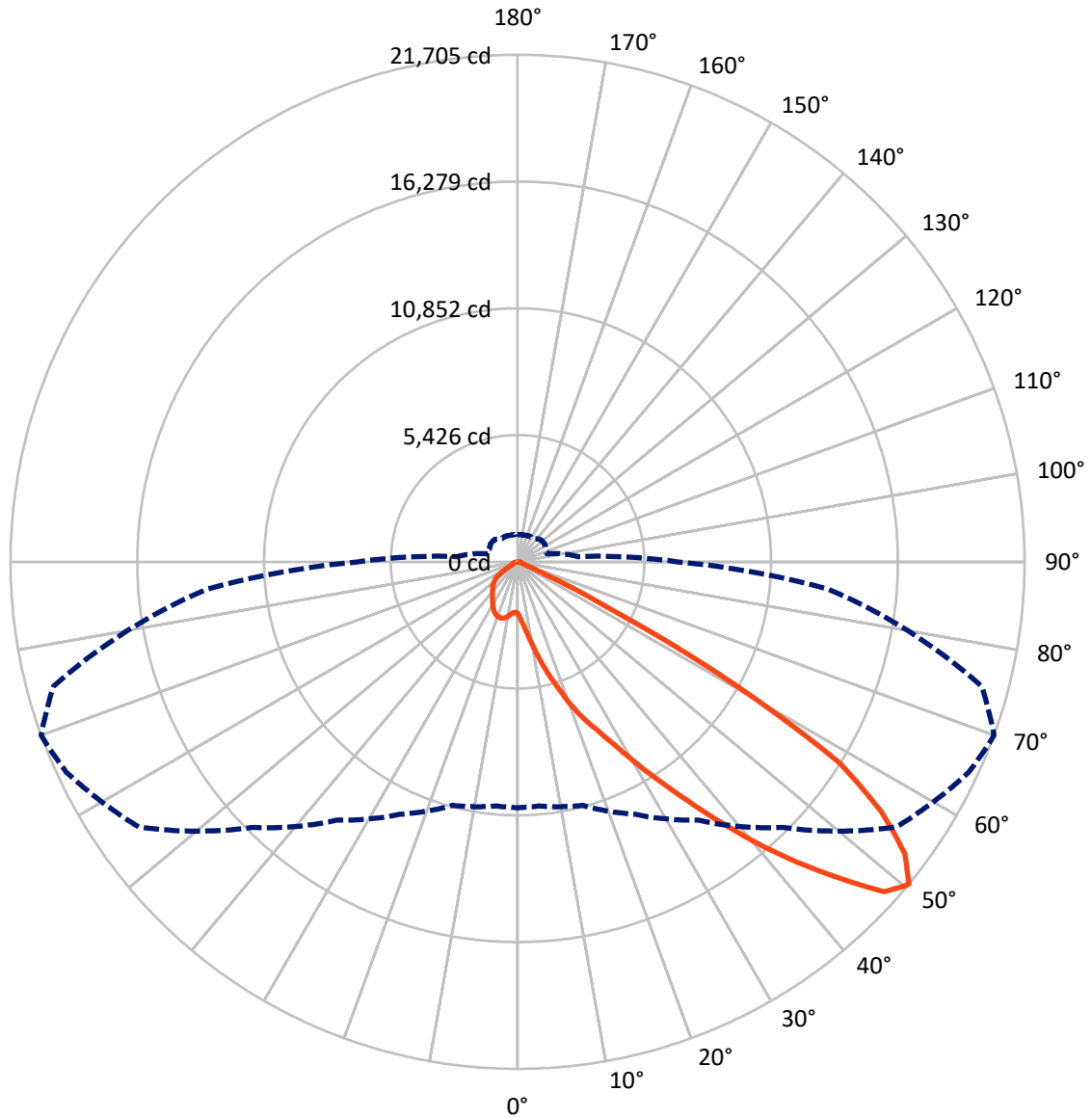
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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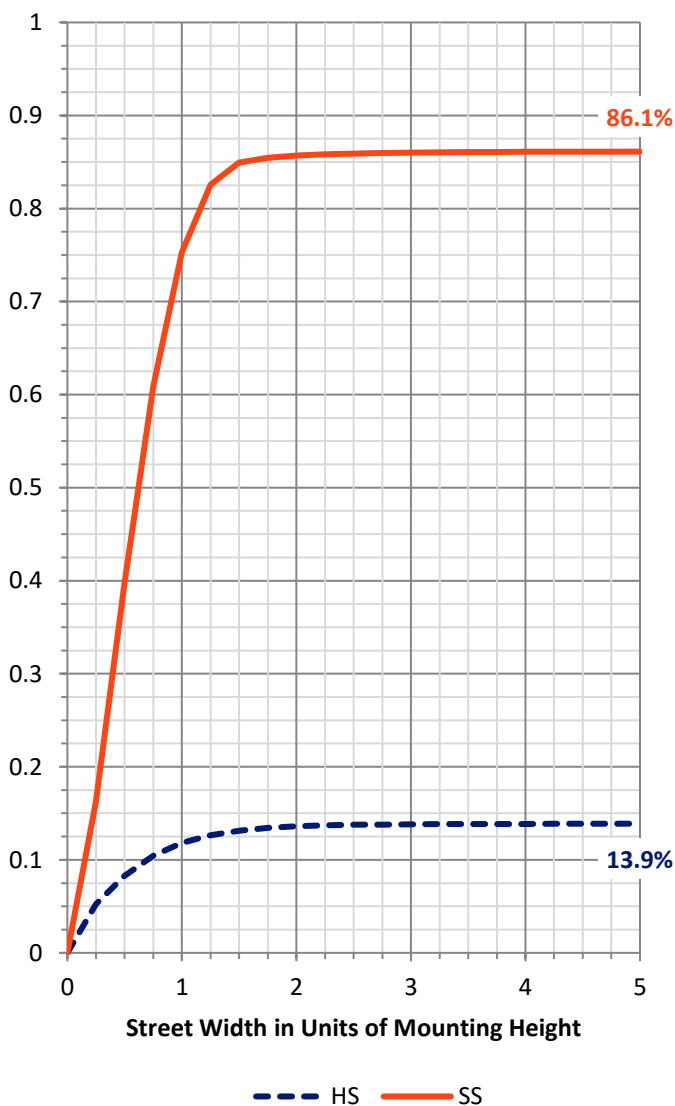
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2998.3	0.0	2998.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18470.8	0.0	18470.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	21469.0	0.0	21469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.3
10°-20°	1250.9	5.8
20°-30°	2624.1	12.2
30°-40°	4523.0	21.1
40°-50°	6610.4	30.8
50°-60°	5148.4	24.0
60°-70°	872.3	4.1
70°-80°	119.8	0.6
80°-90°	31.0	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°	21469.0	100.0
0°-180°	21469.0	100.0

Coefficient of Utilization



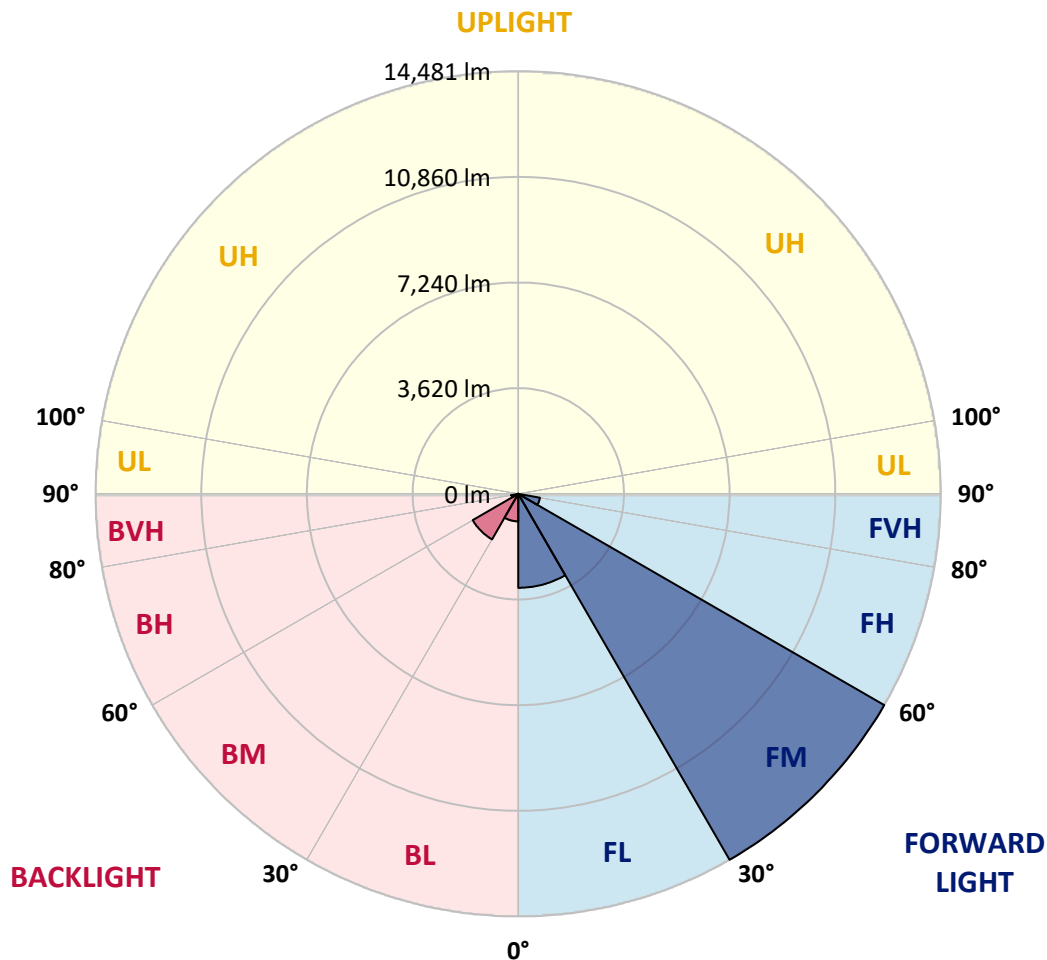
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3220.6	15.0			
FM (30°-60°)	14480.5	67.4			
FH (60°-80°)	755.3	3.5			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	943.5	4.4	B2/1000		
BM (30°-60°)	1801.3	8.4	B2/2500		
BH (60°-80°)	236.8	1.1	B1/500		G1/500
BVH (80°-90°)	16.7	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°	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8
2.5°	2912.1	2890.9	2845.0	2760.3	2725.0	2640.3	2590.9	2495.6	2435.6	2368.5	2294.3
5°	4101.6	3992.2	3925.1	3829.8	3551.0	3378.0	3092.1	2848.6	2735.6	2612.1	2442.6
7.5°	5330.0	5259.4	5167.6	4962.9	4772.3	4412.3	3921.6	3385.1	3155.6	2943.8	2608.5
10°	6346.6	6148.9	6138.3	5986.5	5778.3	5347.7	4758.1	4091.0	3681.6	3371.0	2845.0
12.5°	7056.1	6876.1	6957.3	6939.6	6745.5	6350.1	5668.8	4786.4	4359.3	3875.7	3088.5
15°	7702.1	7627.9	7603.2	7582.0	7504.4	7211.4	6600.7	5633.5	5015.8	4433.4	3363.9
17.5°	8333.9	8143.3	8235.0	8252.7	8245.6	7980.9	7409.1	6438.4	5711.2	5022.9	3653.3
20°	8895.1	8912.7	8789.2	8764.5	8743.3	8732.7	8175.0	7236.1	6565.5	5640.7	4031.0
22.5°	9615.2	9491.6	9601.1	9530.4	9392.8	9308.1	8880.9	7942.0	7306.7	6385.4	4415.8
25°	10465.9	10564.7	10307.0	10278.8	10127.0	9834.0	9449.2	8732.7	8019.7	7077.2	4832.3
27.5°	11514.2	11341.2	11274.2	11118.8	10843.5	10720.0	10268.2	9548.1	8880.9	7804.4	5234.7
30°	12414.3	12368.4	12033.1	11849.5	11609.5	11606.0	10974.1	10652.9	10003.5	8944.5	5788.9
32.5°	13148.5	12947.3	12823.7	12696.7	12502.6	12555.5	12022.5	11853.1	11200.0	10003.5	6441.9
35°	13639.2	13494.5	13420.3	13226.1	13169.7	13406.2	13183.8	13113.2	12576.7	11493.0	7207.8
37.5°	13794.4	13840.3	13826.2	13582.7	13702.7	14341.6	14627.5	14443.9	14161.6	13063.8	8037.3
40°	13932.2	13963.9	13893.3	14179.2	14521.6	15248.8	16283.0	15979.4	15873.5	14655.7	9191.6
42.5°	14009.7	13985.1	13985.1	14479.2	14998.1	16459.4	17882.0	17680.8	17599.6	16350.1	10525.9
45°	13674.5	13434.4	13692.1	14362.7	15407.6	17056.0	19159.8	19438.6	19322.1	18365.6	12086.0
47.5°	12421.4	12569.6	12714.4	13610.9	14909.9	16872.5	19943.4	20892.9	21108.2	20059.8	13109.7
50°	10525.9	10494.1	10794.1	11923.7	13501.5	16081.8	19791.6	21312.9	21704.8	20568.2	13325.0
52.5°	7656.2	7889.1	8213.8	9336.3	11207.1	14034.5	17832.5	20229.3	20751.7	19943.4	13183.8
55°	4458.2	4200.5	4931.1	5880.6	7645.5	10585.8	15075.8	17931.4	18898.6	18806.8	12470.8
57.5°	1786.1	1729.6	1980.2	2668.5	3988.7	6561.9	10963.6	14733.4	16283.0	17225.5	10960.0
60°	783.6	765.9	900.1	1087.2	1630.8	3025.0	5997.2	9163.4	10780.0	12036.6	7543.2
62.5°	564.8	557.7	624.8	691.9	861.3	1316.6	2520.2	3692.2	4602.9	5559.5	3378.0
65°	455.3	473.0	518.9	554.2	635.3	730.7	889.5	1027.1	1260.2	1306.0	744.8
67.5°	370.6	384.8	427.1	466.0	480.1	395.3	409.4	360.0	360.0	321.2	257.7
70°	271.8	275.3	324.7	370.6	296.5	158.9	278.8	278.8	250.6	240.0	218.8
72.5°	201.2	204.8	243.6	229.4	116.5	98.8	204.8	225.9	204.8	194.1	176.5
75°	148.2	151.7	127.1	52.9	49.4	63.5	120.0	155.3	148.2	144.7	134.1
77.5°	28.3	21.1	17.6	24.7	35.3	52.9	77.7	95.3	98.8	105.9	98.8
80°	3.5	3.5	10.6	21.1	38.8	56.5	81.2	91.8	95.3	98.8	91.8
82.5°	0.0	3.5	10.6	21.1	38.8	52.9	70.6	81.2	88.2	91.8	88.2
85°	0.0	3.5	7.0	17.6	31.8	38.8	35.3	24.7	21.1	24.7	17.6
87.5°	0.0	0.0	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
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°	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8	2223.8
2.5°	2252.0	2237.9	2188.5	2135.6	2089.7	2110.8	2089.7	2072.0	2079.0	2072.0	2064.9
5°	2375.5	2312.0	2206.1	2160.2	2121.4	2117.9	2107.3	2103.8	2107.3	2107.3	2075.5
7.5°	2492.1	2389.6	2276.7	2227.3	2181.4	2185.0	2160.2	2160.2	2156.7	2139.1	2132.0
10°	2668.5	2530.9	2386.1	2297.9	2241.4	2230.8	2206.1	2181.4	2181.4	2181.4	2146.1
12.5°	2862.6	2689.7	2492.1	2389.6	2322.6	2269.7	2230.8	2223.8	2185.0	2177.9	2160.2
15°	3032.1	2813.2	2562.6	2421.4	2336.7	2266.2	2206.1	2167.3	2149.6	2139.1	2124.9
17.5°	3198.0	2919.2	2601.4	2421.4	2329.7	2248.5	2185.0	2149.6	2107.3	2114.3	2086.1
20°	3420.4	3032.1	2612.1	2375.5	2262.6	2185.0	2100.2	2082.5	2057.9	2036.7	2043.8
22.5°	3635.7	3113.3	2580.3	2319.1	2156.7	2064.9	2022.6	2001.4	1990.8	1973.2	1948.4
25°	3829.8	3201.5	2530.9	2216.8	2043.8	1976.7	1937.8	1934.3	1909.7	1909.7	1863.7
27.5°	4027.5	3233.3	2446.2	2096.7	1944.9	1906.1	1888.4	1881.4	1870.8	1846.1	1814.3
30°	4253.4	3243.9	2322.6	1973.2	1856.6	1814.3	1839.0	1856.6	1810.8	1764.9	1779.1
32.5°	4440.5	3219.1	2174.4	1856.6	1793.1	1771.9	1821.4	1839.0	1786.1	1736.7	1712.0
35°	4666.4	3159.2	2029.6	1764.9	1729.6	1771.9	1814.3	1814.3	1708.4	1648.4	1634.3
37.5°	5008.8	3092.1	1895.5	1687.2	1662.5	1750.8	1807.2	1768.4	1602.6	1528.4	1510.7
40°	5375.9	3049.8	1764.9	1609.6	1627.2	1715.5	1747.3	1627.2	1457.8	1411.9	1397.8
42.5°	5908.9	2965.1	1648.4	1542.5	1595.4	1666.1	1666.1	1450.7	1387.2	1362.5	1359.0
45°	6572.5	2905.0	1546.0	1486.1	1549.6	1567.3	1510.7	1359.0	1313.1	1306.0	1309.6
47.5°	6897.2	2788.6	1440.2	1419.0	1464.8	1468.4	1320.1	1284.8	1246.0	1235.4	1228.4
50°	6847.8	2580.3	1302.5	1330.7	1394.3	1359.0	1203.6	1210.8	1175.4	1171.9	1154.2
52.5°	6501.9	2252.0	1164.9	1231.9	1302.5	1200.1	1108.3	1101.3	1101.3	1055.4	1037.8
55°	5764.1	1814.3	999.0	1083.7	1168.4	1009.5	984.8	977.7	960.1	917.8	907.2
57.5°	4564.0	1330.7	751.8	843.6	991.9	857.8	854.2	822.5	776.6	744.8	744.8
60°	2714.4	765.9	473.0	515.4	656.5	695.4	773.1	758.9	681.3	631.8	617.7
62.5°	1238.9	395.3	300.0	307.1	353.0	451.8	607.1	702.4	593.0	508.3	501.2
65°	416.5	293.0	247.1	236.5	243.6	271.8	363.5	497.7	473.0	391.8	377.7
67.5°	254.2	261.2	232.9	215.3	215.3	211.8	208.3	225.9	278.8	271.8	275.3
70°	218.8	240.0	215.3	194.1	187.1	176.5	148.2	123.6	105.9	123.6	130.6
72.5°	176.5	190.6	183.5	165.9	148.2	134.1	105.9	81.2	60.0	52.9	52.9
75°	130.6	141.2	148.2	127.1	113.0	95.3	77.7	52.9	31.8	21.1	21.1
77.5°	95.3	105.9	109.4	98.8	84.7	67.1	49.4	35.3	17.6	7.0	7.0
80°	81.2	95.3	105.9	98.8	88.2	63.5	45.9	24.7	14.1	3.5	3.5
82.5°	77.7	95.3	105.9	95.3	84.7	60.0	45.9	28.3	10.6	3.5	3.5
85°	17.6	24.7	31.8	38.8	45.9	45.9	35.3	21.1	10.6	3.5	3.5
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	3.5	3.5	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)