

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: P532217

Luminaire Tested: **GALN-SA7C-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28886 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

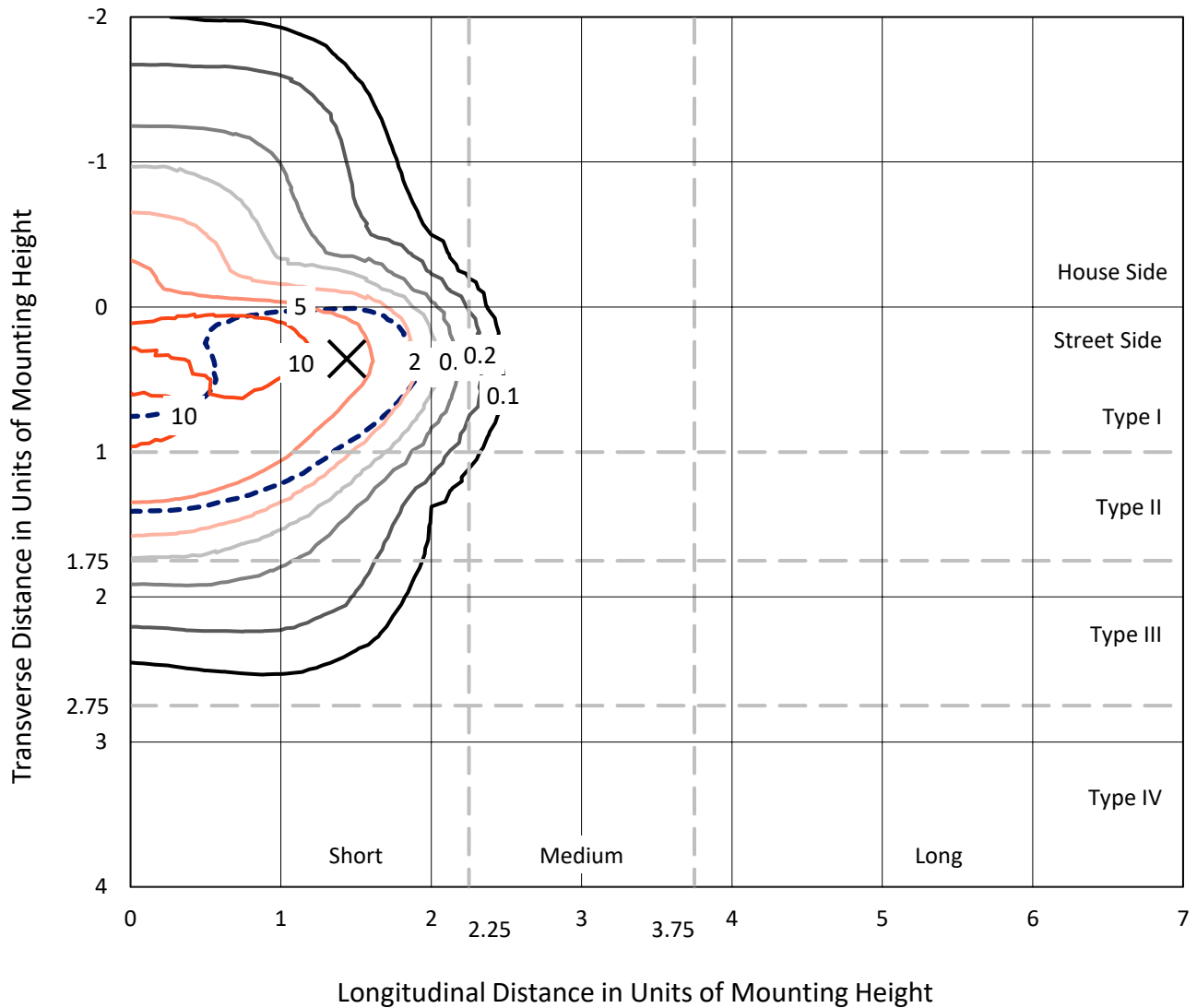
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

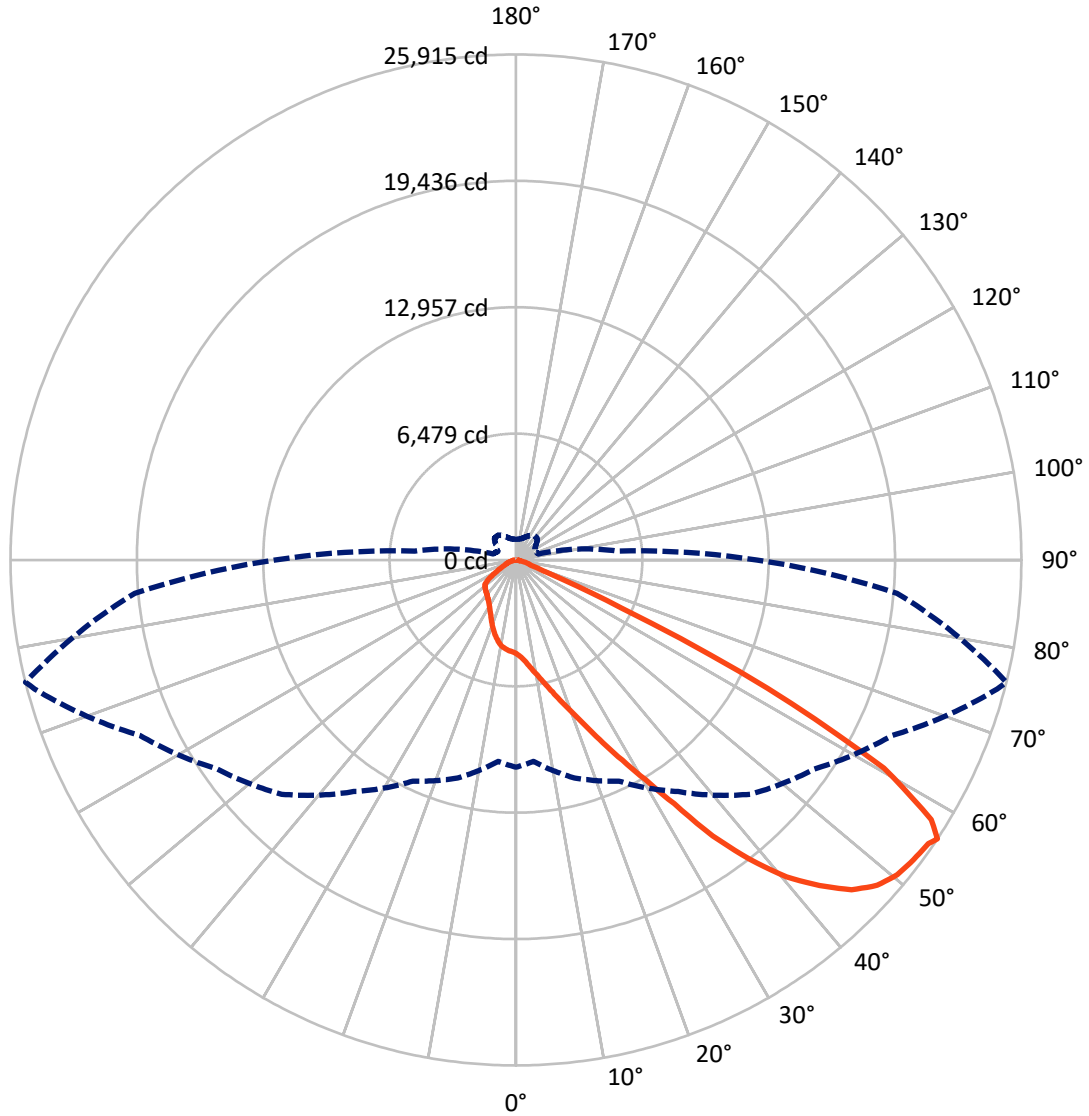
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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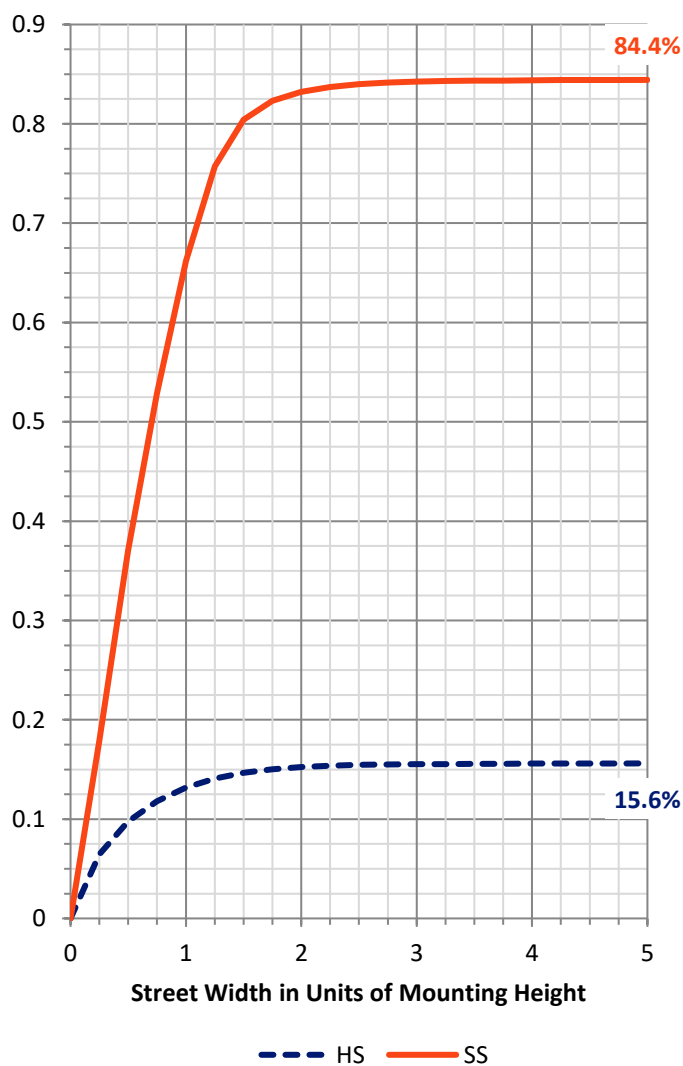
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4537.8	0.0	4537.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	24348.1	0.0	24348.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	28886.0	0.0	28886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.4	1.7
10°-20°	1556.0	5.4
20°-30°	2821.5	9.8
30°-40°	4865.8	16.8
40°-50°	7904.7	27.4
50°-60°	8331.9	28.8
60°-70°	2545.7	8.8
70°-80°	326.3	1.1
80°-90°	49.6	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°	28886.0	100.0
0°-180°	28886.0	100.0

Coefficient of Utilization



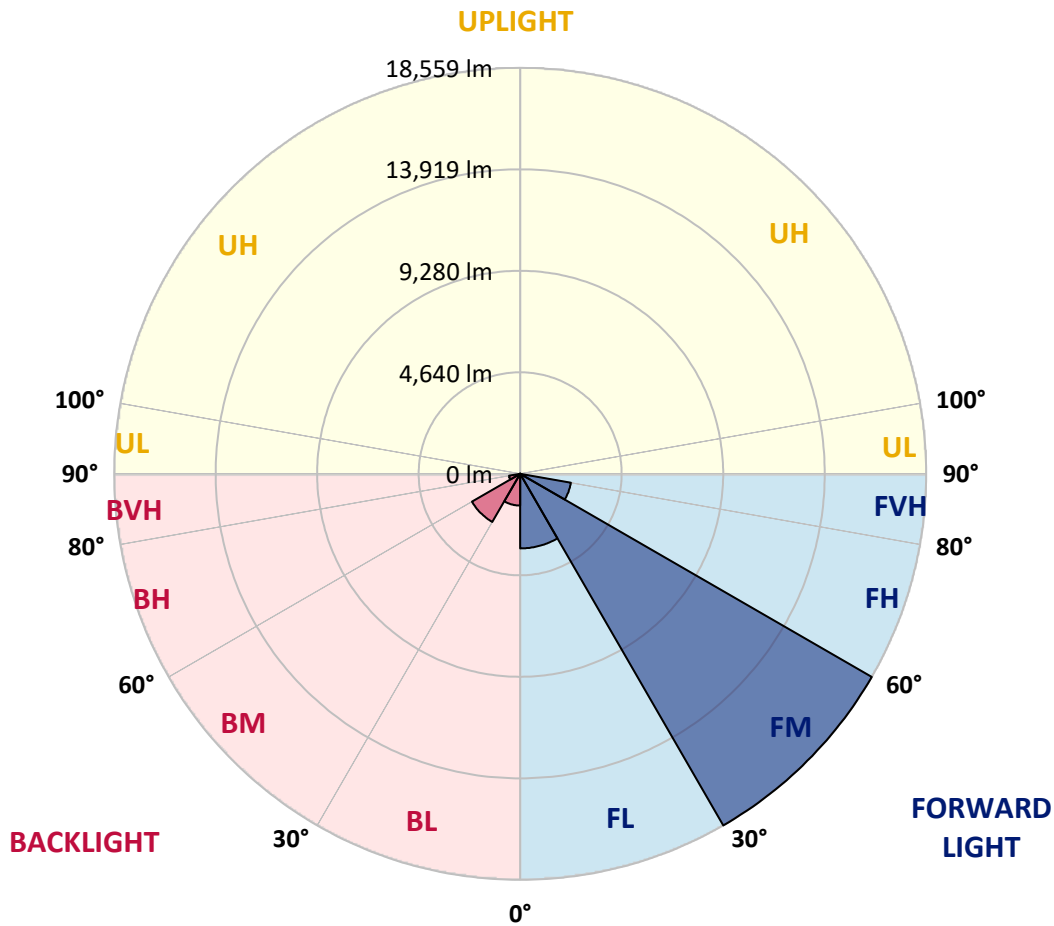
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3410.2	11.8			
FM (30°-60°)	18559.2	64.2			
FH (60°-80°)	2354.4	8.2			G2/5000
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	1451.7	5.0	B3/2500		
BM (30°-60°)	2543.2	8.8	B3/5000		
BH (60°-80°)	517.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	25.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1
2.5°	5537.6	5409.8	5415.1	5404.5	5388.5	5329.9	5154.2	5127.6	5010.5	4978.5	4872.0
5°	6203.2	6091.3	6155.2	6059.4	5968.9	5915.6	5628.1	5495.0	5308.6	5239.4	5090.3
7.5°	6618.5	6565.2	6543.9	6549.3	6464.1	6331.0	6203.2	5910.3	5660.1	5606.8	5292.7
10°	6820.8	6788.9	6820.8	6804.8	6842.1	6858.1	6634.5	6458.7	6091.3	6000.8	5511.0
12.5°	6868.7	6932.6	6959.3	7028.5	7119.0	7273.4	7257.4	7017.8	6528.0	6469.4	5846.4
15°	6985.9	7039.1	7012.5	7124.3	7294.7	7555.6	7694.1	7656.8	7129.6	7023.2	6235.1
17.5°	7092.4	6996.5	7087.0	7310.7	7481.1	7880.4	8215.9	8370.3	7784.6	7662.1	6591.9
20°	7236.1	7209.5	7193.5	7305.4	7608.9	8141.3	8806.9	9089.1	8519.4	8391.6	7103.0
22.5°	7672.8	7678.1	7667.4	7502.4	7720.7	8322.4	9323.4	10020.9	9397.9	9291.4	7683.4
25°	8247.8	8178.6	8125.3	7992.2	7965.6	8487.4	9845.2	11160.4	10452.2	10377.7	8311.7
27.5°	8854.8	8854.8	8695.1	8572.6	8402.2	8897.4	10324.4	12267.9	11724.8	11623.6	8860.1
30°	9515.1	9552.3	9531.0	9270.1	9163.6	9344.7	10814.3	13684.2	13183.7	13055.9	9765.3
32.5°	10489.5	10409.6	10500.1	10281.8	9967.7	10127.4	11586.3	14951.5	15079.3	14898.2	10952.7
35°	11778.0	11730.1	11671.5	11314.8	10942.1	11069.9	12677.9	16511.6	17459.4	17368.9	12150.7
37.5°	12933.5	12906.8	12858.9	12614.0	12182.7	12337.1	13918.5	18135.6	19780.9	19482.7	13844.0
40°	14147.5	14291.2	14136.8	13918.5	13524.5	13865.3	15377.5	19099.4	21735.0	21373.0	15137.9
42.5°	15792.8	15681.0	15750.2	15350.8	15137.9	15510.6	16841.7	20063.1	23252.5	22821.3	16511.6
45°	17544.6	17549.9	17363.5	17235.7	16682.0	17086.7	17741.6	20595.6	24461.2	24125.8	17549.9
47.5°	18668.1	18662.7	18865.1	19067.4	18497.7	18098.3	18353.9	21101.4	25084.2	24929.8	17927.9
50°	18492.4	18545.6	18806.5	19562.6	19860.8	19323.0	18929.0	20952.3	25366.4	25350.4	18252.7
52.5°	16085.6	16261.3	16698.0	17789.5	19291.0	19956.6	19530.7	21229.2	25504.9	25531.5	18737.3
55°	12246.6	12342.4	13173.1	14498.9	16160.2	18439.1	19291.0	21447.5	25611.3	25659.3	19323.0
56°	10622.6	10367.0	11565.0	12507.5	14493.6	16985.5	18684.0	21277.1	25547.5	25914.9	19615.8
57.5°	8018.9	7848.5	8817.5	9994.3	11905.8	14536.2	16799.1	20473.1	25116.2	25110.8	19195.2
60°	4877.3	4707.0	5452.4	6144.6	7214.8	8950.7	11352.1	16303.9	21234.5	21681.8	15542.5
62.5°	2901.9	3008.4	3743.2	4163.8	4509.9	4691.0	5873.0	9690.8	14168.8	14488.2	9642.9
65°	1932.8	1970.1	2523.9	3216.1	3370.5	2683.6	2390.7	3924.2	6144.6	5947.6	3977.5
67.5°	1192.7	1277.9	1693.2	2417.4	2678.3	1959.5	1134.1	1464.3	1693.2	1693.2	1150.1
70°	724.1	766.7	1128.8	1645.3	1837.0	1261.9	825.3	825.3	814.7	798.7	686.9
72.5°	346.1	372.7	575.1	846.6	862.6	665.6	639.0	697.5	681.5	676.2	569.7
75°	149.1	159.7	202.3	266.2	303.5	282.2	388.7	500.5	516.5	500.5	410.0
77.5°	47.9	53.2	74.5	95.8	101.2	122.5	165.1	207.7	239.6	223.6	202.3
80°	5.3	10.6	21.3	47.9	74.5	95.8	122.5	138.4	154.4	154.4	143.8
82.5°	5.3	5.3	21.3	42.6	69.2	90.5	117.1	133.1	154.4	159.7	149.1
85°	0.0	5.3	16.0	37.3	58.6	58.6	53.2	53.2	37.3	37.3	37.3
87.5°	0.0	0.0	5.3	5.3	5.3	10.6	10.6	10.6	10.6	10.6	10.6
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°	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1	4808.1
2.5°	4850.7	4840.1	4696.3	4605.8	4557.9	4462.0	4403.4	4360.9	4328.9	4291.6	4297.0
5°	4914.6	4877.3	4637.7	4472.7	4275.7	4169.2	4078.6	4004.1	3956.2	3945.5	3924.2
7.5°	5095.6	4898.6	4536.6	4238.4	3988.1	3881.6	3801.8	3753.8	3775.1	3727.2	3764.5
10°	5234.1	4941.2	4414.1	3982.8	3732.5	3652.7	3610.1	3647.4	3700.6	3679.3	3652.7
12.5°	5404.5	4983.8	4217.1	3737.9	3503.6	3445.0	3519.6	3588.8	3695.3	3737.9	3684.6
15°	5596.2	5031.8	3966.8	3455.7	3306.6	3354.5	3482.3	3604.8	3711.2	3764.5	3796.4
17.5°	5830.4	5015.8	3721.9	3232.0	3120.2	3258.7	3413.1	3524.9	3684.6	3764.5	3743.2
20°	6048.8	4962.5	3450.3	3008.4	3013.7	3141.5	3269.3	3450.3	3535.5	3642.0	3604.8
22.5°	6256.4	4866.7	3168.1	2854.0	2854.0	3051.0	3114.9	3232.0	3306.6	3359.8	3354.5
25°	6549.3	4685.7	2933.9	2704.9	2768.8	2896.6	2949.8	2987.1	2955.2	2997.8	3003.1
27.5°	6756.9	4499.3	2742.2	2571.8	2688.9	2784.8	2768.8	2747.5	2673.0	2614.4	2651.7
30°	6980.6	4281.0	2577.1	2481.3	2545.2	2630.4	2566.5	2502.6	2385.4	2289.6	2294.9
32.5°	7300.0	4179.8	2433.3	2374.8	2460.0	2470.6	2401.4	2305.6	2188.4	2097.9	2092.6
35°	7896.4	4115.9	2310.9	2305.6	2321.5	2326.9	2257.6	2140.5	2092.6	2018.0	2044.6
37.5°	8492.7	4084.0	2225.7	2204.4	2199.1	2204.4	2124.5	2012.7	2103.2	2097.9	2108.5
40°	9254.2	4227.7	2103.2	2076.6	2081.9	2081.9	1980.8	1948.8	2108.5	2124.5	2129.8
42.5°	10026.2	4408.8	2023.3	1938.2	1959.5	1959.5	1906.2	1868.9	1980.8	1874.3	1858.3
45°	10697.1	4675.0	1938.2	1799.7	1853.0	1879.6	1863.6	1799.7	1730.5	1549.5	1549.5
47.5°	10915.4	4909.3	1837.0	1666.6	1709.2	1826.3	1778.4	1645.3	1522.8	1373.7	1363.1
50°	11298.8	5164.9	1757.1	1512.2	1602.7	1746.5	1698.5	1565.4	1427.0	1320.5	1325.8
52.5°	11692.8	5457.7	1608.0	1331.2	1443.0	1682.6	1682.6	1533.5	1320.5	1246.0	1235.3
55°	12283.9	5447.1	1341.8	1091.5	1288.6	1586.7	1613.4	1373.7	1182.1	1123.5	1123.5
56°	12369.1	5202.1	1208.7	1022.3	1219.3	1560.1	1565.4	1331.2	1128.8	1064.9	1064.9
57.5°	11730.1	4696.3	1059.6	937.1	1134.1	1512.2	1517.5	1293.9	1086.2	995.7	985.1
60°	9025.2	3178.8	883.9	836.0	1027.6	1363.1	1389.7	1176.7	953.1	883.9	878.6
62.5°	5095.6	1762.4	777.4	756.1	883.9	1160.8	1240.6	1027.6	809.3	772.1	782.7
65°	2326.9	969.1	654.9	612.3	713.5	894.5	1001.0	846.6	665.6	623.0	623.0
67.5°	851.9	660.3	559.1	484.5	500.5	580.4	649.6	548.4	441.9	378.0	394.0
70°	607.0	553.8	489.9	420.6	388.7	378.0	372.7	308.8	218.3	170.4	181.0
72.5°	489.9	457.9	410.0	356.7	303.5	255.6	218.3	159.7	101.2	69.2	63.9
75°	351.4	335.5	298.2	255.6	213.0	181.0	149.1	101.2	53.2	26.6	26.6
77.5°	181.0	181.0	175.7	159.7	133.1	106.5	85.2	58.6	31.9	10.6	10.6
80°	138.4	149.1	154.4	138.4	122.5	95.8	69.2	42.6	21.3	5.3	5.3
82.5°	133.1	154.4	165.1	143.8	122.5	90.5	69.2	42.6	21.3	5.3	5.3
85°	31.9	31.9	47.9	53.2	69.2	74.5	58.6	37.3	16.0	5.3	5.3
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	5.3	5.3	5.3	5.3	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)