

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: P532219

Luminaire Tested: **GALN-SA7C-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532219
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-SA7C-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 32386 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

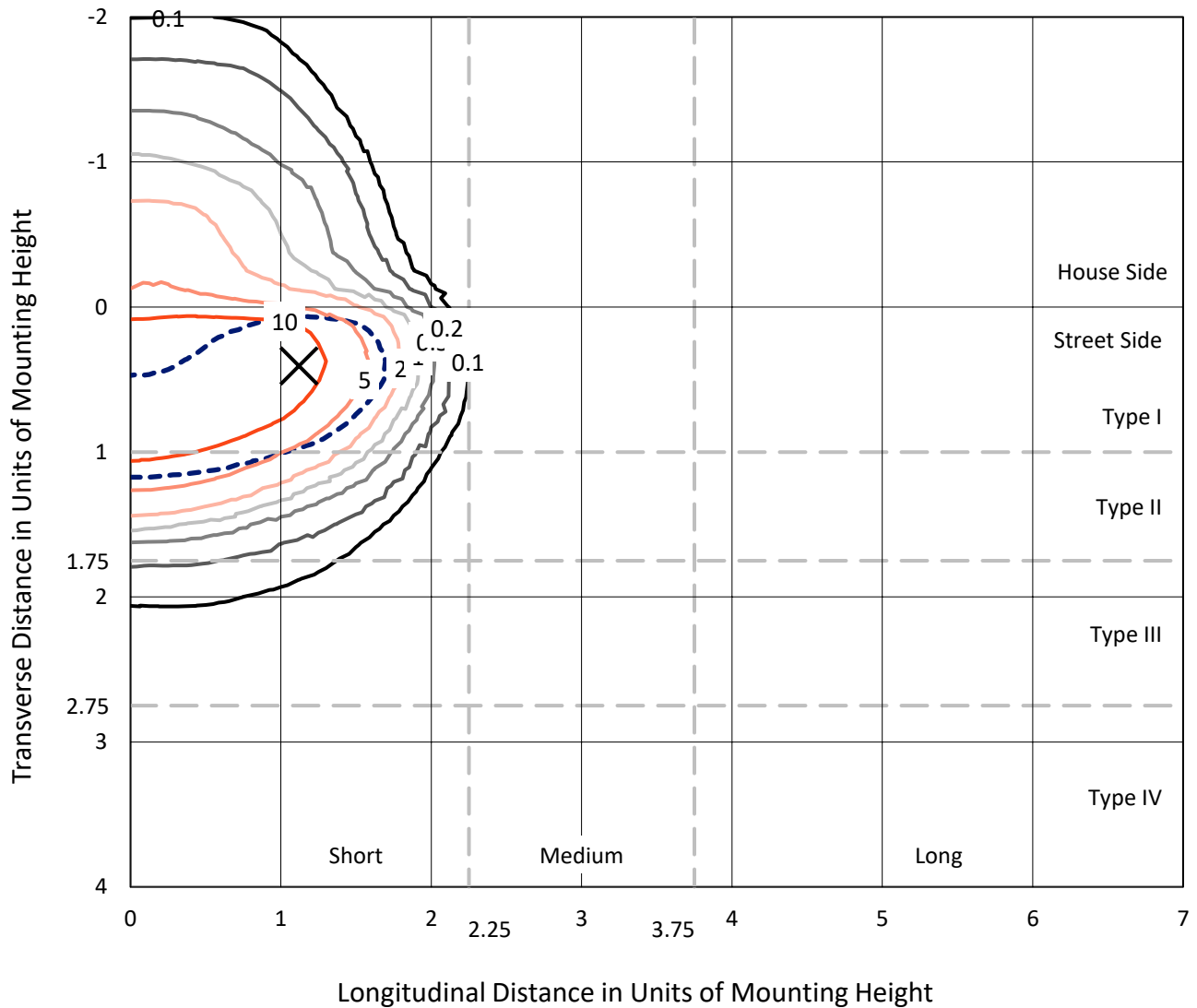
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

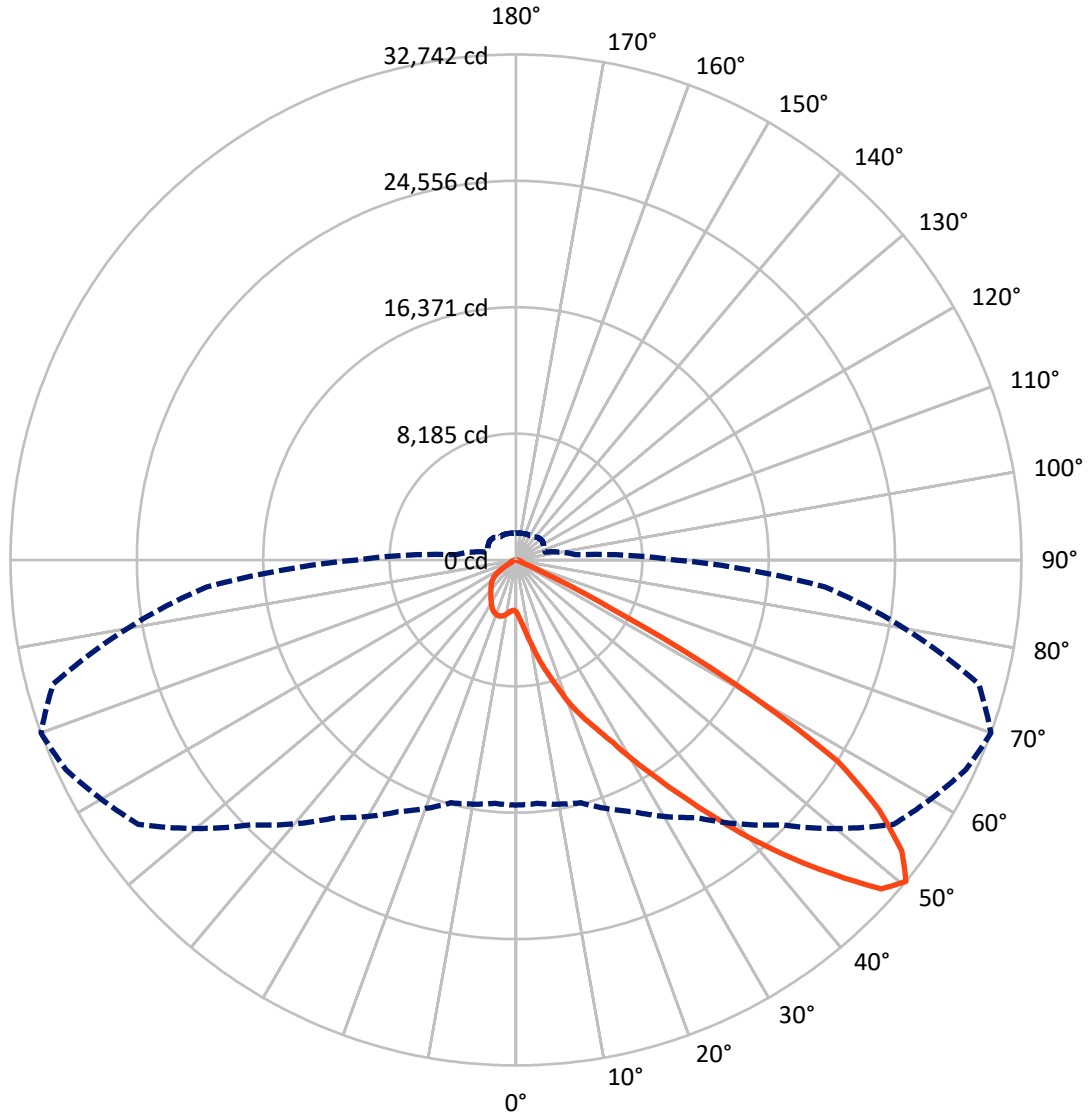
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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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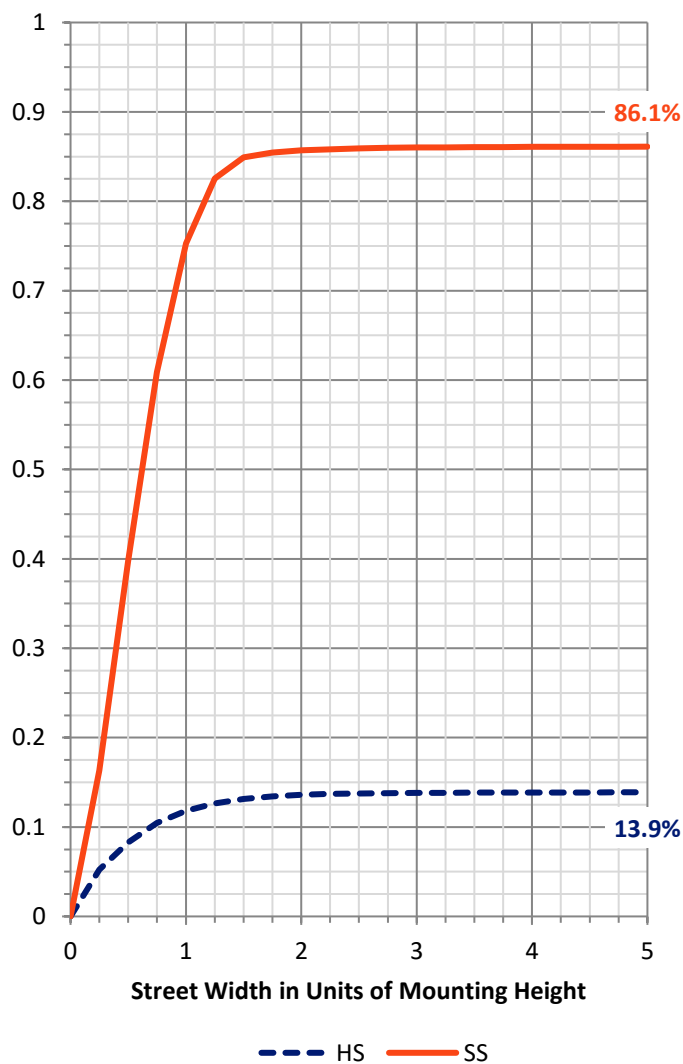
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4522.9	0.0	4522.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27863.1	0.0	27863.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	32386.0	0.0	32386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.2	1.3
10°-20°	1886.9	5.8
20°-30°	3958.4	12.2
30°-40°	6823.0	21.1
40°-50°	9971.7	30.8
50°-60°	7766.3	24.0
60°-70°	1315.9	4.1
70°-80°	180.8	0.6
80°-90°	46.8	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°	32386.0	100.0
0°-180°	32386.0	100.0

Coefficient of Utilization



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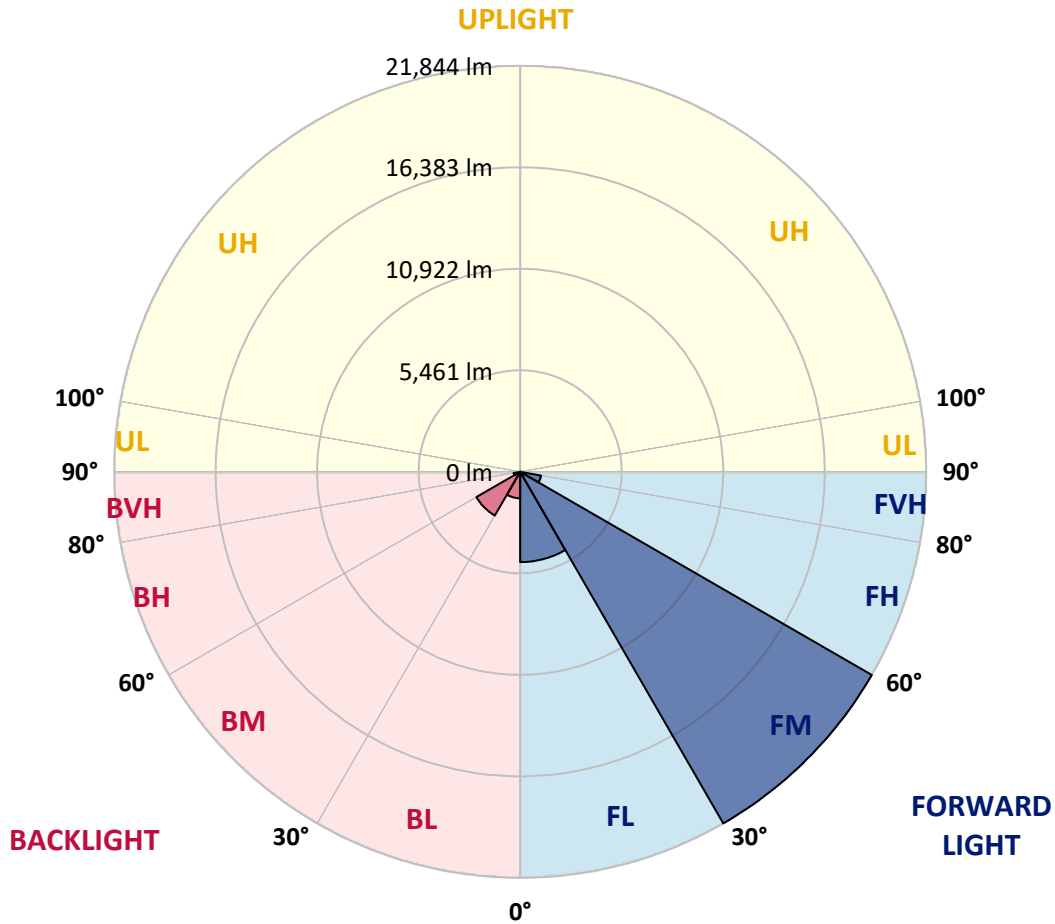
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4858.3	15.0			
FM (30°-60°)	21843.8	67.4			
FH (60°-80°)	1139.3	3.5			G1/1800
FVH (80°-90°)	21.6	0.1			G1/100
BL (0°-30°)	1423.3	4.4	B3/2500		
BM (30°-60°)	2717.2	8.4	B3/5000		
BH (60°-80°)	357.3	1.1	B1/500		G1/500
BVH (80°-90°)	25.2	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6
2.5°	4392.9	4360.9	4291.7	4163.9	4110.7	3982.9	3908.3	3764.6	3674.0	3572.9	3461.0
5°	6187.3	6022.2	5921.1	5777.3	5356.6	5095.7	4664.4	4297.0	4126.6	3940.3	3684.7
7.5°	8040.3	7933.8	7795.3	7486.5	7199.0	6655.9	5915.7	5106.4	4760.3	4440.8	3934.9
10°	9573.8	9275.6	9259.6	9030.7	8716.5	8066.9	7177.7	6171.3	5553.6	5085.1	4291.7
12.5°	10644.0	10372.5	10495.0	10468.3	10175.5	9579.1	8551.4	7220.3	6576.0	5846.5	4659.1
15°	11618.5	11506.6	11469.4	11437.4	11320.3	10878.3	9957.2	8498.2	7566.4	6687.8	5074.4
17.5°	12571.6	12284.0	12422.5	12449.1	12438.5	12039.1	11176.5	9712.2	8615.3	7577.0	5511.0
20°	13418.2	13444.8	13258.5	13221.2	13189.2	13173.3	12332.0	10915.6	9903.9	8508.8	6080.8
22.5°	14504.4	14318.1	14483.1	14376.7	14169.0	14041.2	13396.9	11980.5	11022.1	9632.4	6661.2
25°	15787.7	15936.8	15548.1	15505.5	15276.5	14834.6	14254.2	13173.3	12097.7	10676.0	7289.5
27.5°	17369.1	17108.2	17007.0	16772.8	16357.4	16171.1	15489.5	14403.3	13396.9	11772.9	7896.5
30°	18726.9	18657.7	18151.9	17875.0	17512.9	17507.6	16554.4	16069.9	15090.2	13492.8	8732.5
32.5°	19834.5	19530.9	19344.6	19152.9	18860.0	18939.9	18135.9	17880.3	16895.2	15090.2	9717.6
35°	20574.6	20356.3	20244.5	19951.6	19866.4	20223.2	19887.7	19781.2	18971.9	17337.2	10873.0
37.5°	20808.9	20878.1	20856.8	20489.4	20670.4	21634.2	22065.5	21788.6	21362.6	19706.7	12124.3
40°	21016.5	21064.5	20958.0	21389.3	21905.8	23002.6	24562.8	24104.9	23945.1	22108.1	13865.5
42.5°	21133.7	21096.4	21096.4	21841.9	22624.6	24829.0	26974.9	26671.3	26548.9	24663.9	15878.2
45°	20627.8	20265.8	20654.5	21666.1	23242.3	25728.9	28902.4	29323.0	29147.3	27704.3	18231.7
47.5°	18737.6	18961.2	19179.5	20532.0	22491.5	25452.0	30084.5	31516.8	31841.6	30260.2	19775.9
50°	15878.2	15830.3	16282.9	17986.8	20366.9	24259.3	29855.5	32150.5	32741.5	31026.9	20100.7
52.5°	11549.2	11900.7	12390.5	14083.8	16905.9	21170.9	26900.3	30515.8	31303.8	30084.5	19887.7
55°	6725.1	6336.4	7438.6	8870.9	11533.3	15968.7	22741.7	27049.4	28508.4	28369.9	18812.1
57.5°	2694.3	2609.1	2987.1	4025.5	6016.9	9898.6	16538.5	22225.2	24562.8	25984.5	16533.1
60°	1182.1	1155.5	1357.8	1640.0	2460.0	4563.3	9046.6	13822.9	16261.6	18157.2	11378.9
62.5°	851.9	841.3	942.5	1043.6	1299.2	1986.1	3801.8	5569.6	6943.4	8386.4	5095.7
65°	686.9	713.5	782.7	836.0	958.4	1102.2	1341.8	1549.5	1900.9	1970.1	1123.5
67.5°	559.1	580.4	644.3	702.9	724.2	596.4	617.7	543.1	543.1	484.5	388.7
70°	410.0	415.3	489.9	559.1	447.3	239.6	420.7	420.7	378.1	362.1	330.1
72.5°	303.5	308.8	367.4	346.1	175.7	149.1	308.8	340.8	308.8	292.9	266.2
75°	223.6	229.0	191.7	79.9	74.5	95.8	181.0	234.3	223.6	218.3	202.3
77.5°	42.6	31.9	26.6	37.3	53.2	79.9	117.1	143.8	149.1	159.7	149.1
80°	5.3	5.3	16.0	31.9	58.6	85.2	122.5	138.4	143.8	149.1	138.4
82.5°	0.0	5.3	16.0	31.9	58.6	79.9	106.5	122.5	133.1	138.4	133.1
85°	0.0	5.3	10.6	26.6	47.9	58.6	53.2	37.3	31.9	37.3	26.6
87.5°	0.0	0.0	5.3	5.3	10.6	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°	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6
2.5°	3397.1	3375.9	3301.3	3221.4	3152.2	3184.2	3152.2	3125.6	3136.2	3125.6	3114.9
5°	3583.5	3487.7	3327.9	3258.7	3200.1	3194.8	3178.8	3173.5	3178.8	3178.8	3130.9
7.5°	3759.2	3604.8	3434.4	3359.9	3290.7	3296.0	3258.7	3258.7	3253.4	3226.8	3216.1
10°	4025.5	3817.8	3599.5	3466.4	3381.2	3365.2	3327.9	3290.7	3290.7	3290.7	3237.4
12.5°	4318.3	4057.4	3759.2	3604.8	3503.6	3423.8	3365.2	3354.6	3296.0	3285.3	3258.7
15°	4573.9	4243.8	3865.7	3652.7	3524.9	3418.4	3327.9	3269.4	3242.7	3226.8	3205.5
17.5°	4824.2	4403.5	3924.3	3652.7	3514.3	3391.8	3296.0	3242.7	3178.8	3189.5	3146.9
20°	5159.6	4573.9	3940.3	3583.5	3413.1	3296.0	3168.2	3141.6	3104.3	3072.3	3083.0
22.5°	5484.4	4696.4	3892.3	3498.3	3253.4	3114.9	3051.0	3019.1	3003.1	2976.5	2939.2
25°	5777.3	4829.5	3817.8	3343.9	3083.0	2981.8	2923.3	2917.9	2880.7	2880.7	2811.4
27.5°	6075.5	4877.4	3690.0	3162.9	2933.9	2875.3	2848.7	2838.1	2822.1	2784.8	2736.9
30°	6416.2	4893.4	3503.6	2976.5	2800.8	2736.9	2774.2	2800.8	2731.6	2662.3	2683.6
32.5°	6698.5	4856.1	3280.0	2800.8	2704.9	2673.0	2747.5	2774.2	2694.3	2619.7	2582.5
35°	7039.2	4765.6	3061.7	2662.3	2609.1	2673.0	2736.9	2736.9	2577.1	2486.6	2465.3
37.5°	7555.7	4664.4	2859.4	2545.2	2507.9	2641.0	2726.2	2667.7	2417.4	2305.6	2279.0
40°	8109.5	4600.5	2662.3	2428.1	2454.7	2587.8	2635.7	2454.7	2199.1	2129.9	2108.6
42.5°	8913.5	4472.7	2486.6	2326.9	2406.8	2513.3	2513.3	2188.4	2092.6	2055.3	2050.0
45°	9914.6	4382.2	2332.2	2241.7	2337.5	2364.2	2279.0	2050.0	1980.8	1970.1	1975.5
47.5°	10404.4	4206.5	2172.5	2140.5	2209.7	2215.1	1991.4	1938.2	1879.6	1863.6	1853.0
50°	10329.9	3892.3	1964.8	2007.4	2103.3	2050.0	1815.7	1826.4	1773.1	1767.8	1741.2
52.5°	9808.1	3397.1	1757.1	1858.3	1964.8	1810.4	1672.0	1661.3	1661.3	1592.1	1565.5
55°	8695.2	2736.9	1506.9	1634.7	1762.5	1522.9	1485.6	1474.9	1448.3	1384.4	1368.4
57.5°	6884.8	2007.4	1134.2	1272.6	1496.2	1293.9	1288.6	1240.7	1171.4	1123.5	1123.5
60°	4094.7	1155.5	713.5	777.4	990.4	1049.0	1166.1	1144.8	1027.7	953.1	931.8
62.5°	1869.0	596.4	452.6	463.2	532.5	681.6	915.8	1059.6	894.5	766.8	756.1
65°	628.3	441.9	372.7	356.8	367.4	410.0	548.4	750.8	713.5	591.0	569.7
67.5°	383.4	394.0	351.4	324.8	324.8	319.5	314.2	340.8	420.7	410.0	415.3
70°	330.1	362.1	324.8	292.9	282.2	266.2	223.6	186.4	159.7	186.4	197.0
72.5°	266.2	287.5	276.9	250.3	223.6	202.3	159.7	122.5	90.5	79.9	79.9
75°	197.0	213.0	223.6	191.7	170.4	143.8	117.1	79.9	47.9	31.9	31.9
77.5°	143.8	159.7	165.1	149.1	127.8	101.2	74.5	53.2	26.6	10.6	10.6
80°	122.5	143.8	159.7	149.1	133.1	95.8	69.2	37.3	21.3	5.3	5.3
82.5°	117.1	143.8	159.7	143.8	127.8	90.5	69.2	42.6	16.0	5.3	5.3
85°	26.6	37.3	47.9	58.6	69.2	69.2	53.2	31.9	16.0	5.3	5.3
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	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)