

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: P531744

Luminaire Tested: **GALN-SA7A-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26947 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

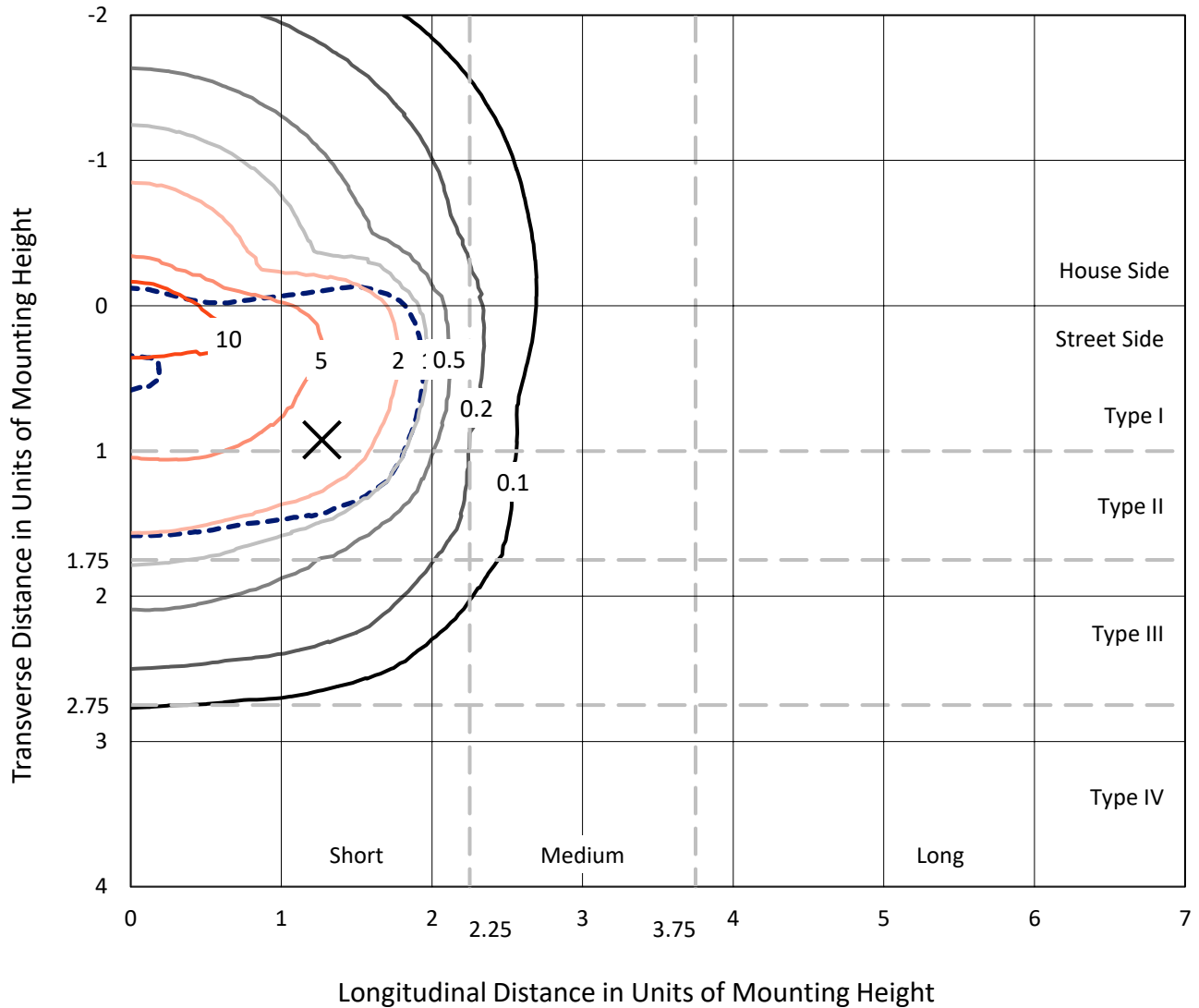
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

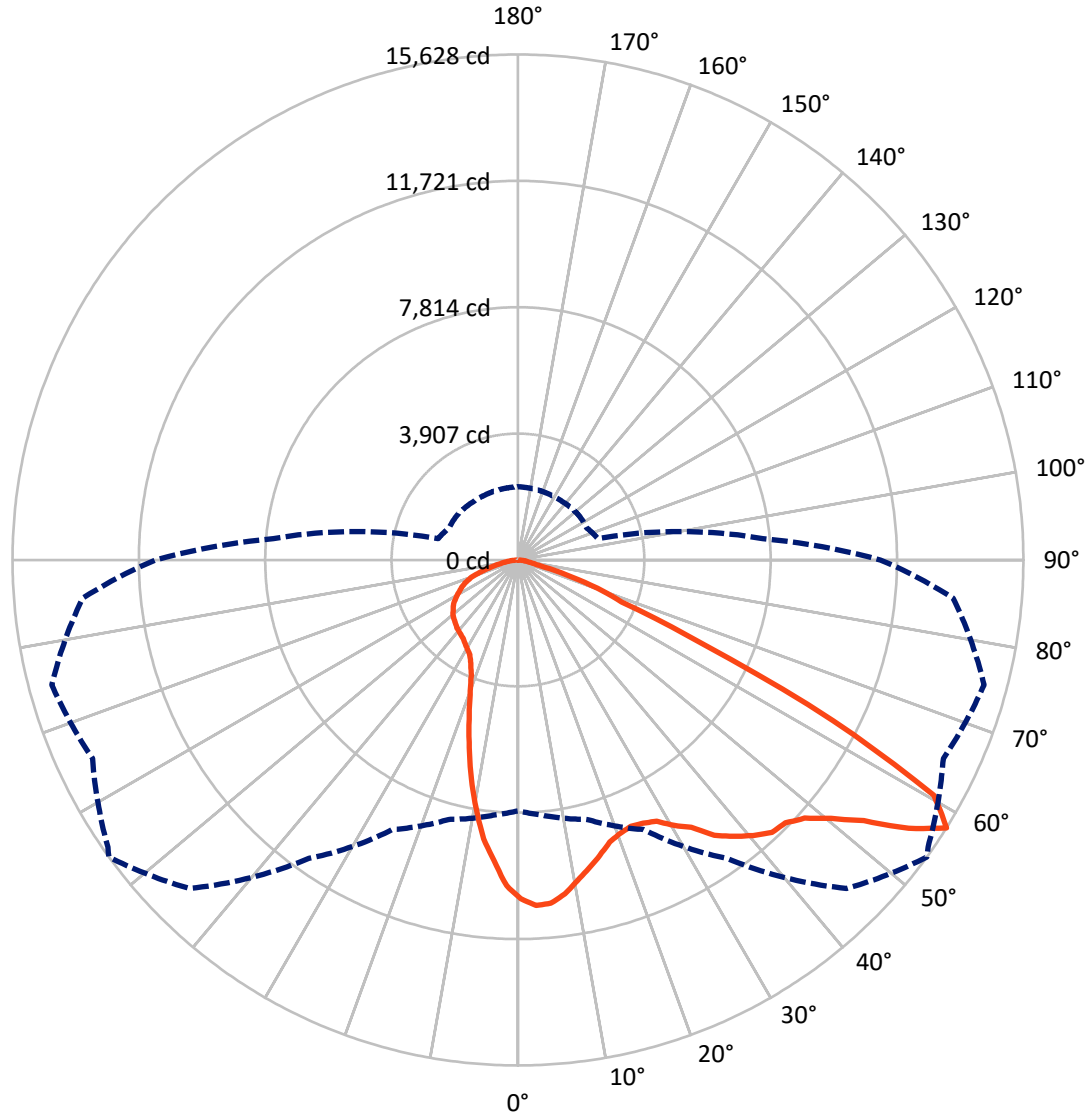
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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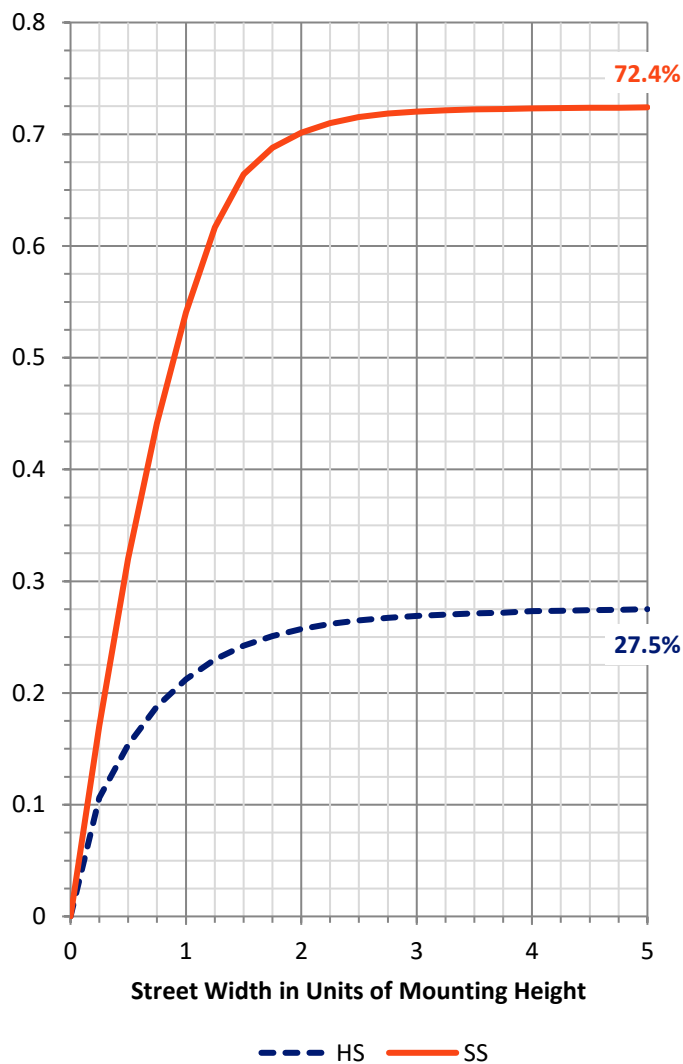
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7455.0	0.0	7455.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19492.0	0.0	19492.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	26947.0	0.0	26947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.3	3.4
10°-20°	2091.4	7.8
20°-30°	2938.5	10.9
30°-40°	4108.0	15.2
40°-50°	5561.5	20.6
50°-60°	6774.1	25.1
60°-70°	3528.3	13.1
70°-80°	904.1	3.4
80°-90°	137.9	0.5
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°	26947.0	100.0
0°-180°	26947.0	100.0

Coefficient of Utilization



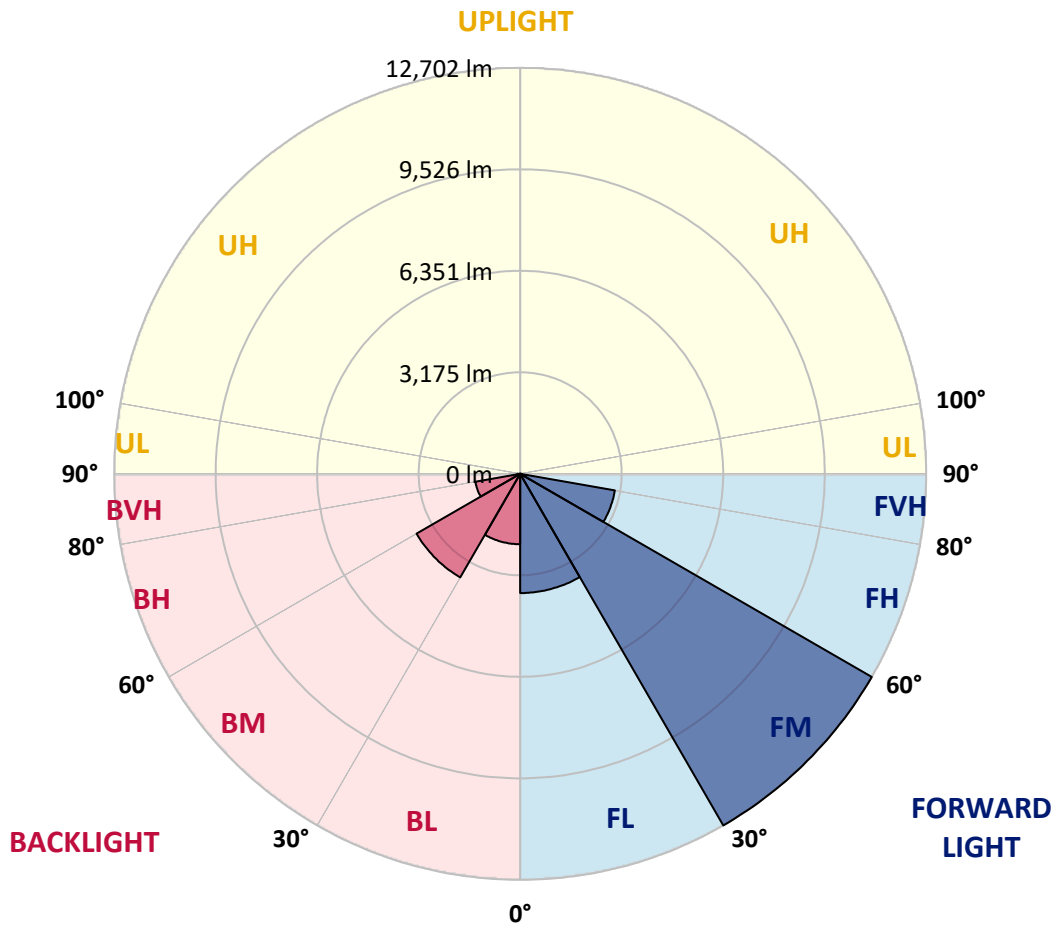
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3729.8	13.8			
FM (30°-60°)	12702.0	47.1			
FH (60°-80°)	3008.0	11.2			G2/5000
FVH (80°-90°)	52.1	0.2			G1/100
BL (0°-30°)	2203.3	8.2	B3/2500		
BM (30°-60°)	3741.6	13.9	B3/5000		
BH (60°-80°)	1424.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	85.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0
2.5°	10771.9	10730.3	10737.2	10792.6	10723.4	10695.7	10695.7	10560.6	10571.0	10477.5	10453.2
5°	10522.5	10425.5	10491.3	10574.4	10588.3	10616.0	10661.0	10626.4	10529.4	10429.0	10266.2
7.5°	9871.3	9957.9	9982.2	10041.0	10165.7	10280.0	10422.0	10325.1	10321.6	10221.1	10124.2
10°	9299.8	9247.9	9379.5	9466.1	9673.9	9864.4	10082.6	10072.2	10124.2	10009.9	9843.6
12.5°	8731.8	8690.2	8752.6	8950.0	9240.9	9518.0	9777.8	9680.8	9957.9	9937.1	9580.4
15°	8129.1	8160.3	8250.3	8433.9	8814.9	9147.4	9476.5	9479.9	9725.8	9809.0	9331.0
17.5°	7706.6	7671.9	7786.2	8059.8	8399.3	8797.6	9171.7	9247.9	9625.4	9673.9	9254.8
20°	7391.4	7439.9	7588.8	7727.3	8118.7	8600.2	9022.7	9050.4	9604.6	9736.2	9133.6
22.5°	7315.2	7287.5	7335.9	7561.1	7883.2	8406.2	8943.1	9047.0	9601.2	9715.5	8905.0
25°	7235.5	7325.6	7322.1	7547.2	7782.8	8250.3	9008.9	9123.2	9784.7	9822.8	8936.1
27.5°	7415.6	7405.2	7502.2	7519.5	7810.5	8291.9	9147.4	9234.0	10089.5	10058.4	8960.4
30°	7595.7	7543.8	7602.6	7807.0	7942.1	8530.9	9528.4	9521.5	10484.4	10463.6	9036.6
32.5°	7817.4	7793.1	7831.2	8011.4	8240.0	8849.6	9850.5	10054.9	10886.2	11017.8	9299.8
35°	7859.0	7959.4	8049.5	8291.9	8617.5	9365.6	10456.7	10626.4	11350.3	11762.5	9802.0
37.5°	8122.2	8160.3	8371.6	8801.1	9098.9	10054.9	10841.1	10948.5	11772.8	12240.4	10332.0
40°	8402.7	8447.8	8766.4	9216.7	9625.4	10505.2	11201.4	11236.0	11907.9	12607.6	10678.3
42.5°	8783.7	8825.3	9140.5	9705.1	10252.3	10889.6	11520.0	11558.1	11897.5	13030.1	11229.1
45°	9178.6	9279.0	9649.6	10290.4	10782.3	11339.9	11592.7	11748.6	11994.5	13407.7	11675.9
47.5°	9732.8	9826.3	10131.1	10758.0	11333.0	11734.7	11928.7	12081.1	12226.6	13736.7	11963.3
50°	10321.6	10338.9	10709.5	11277.6	11700.1	12181.6	12555.6	12607.6	12531.4	14117.7	12451.7
52.5°	10754.5	10810.0	11097.4	11651.6	12282.0	12874.3	13386.9	13442.3	13293.4	14259.7	12618.0
55°	10037.6	10006.4	10474.0	11211.7	12673.4	13906.4	14651.1	14692.7	13847.6	14699.6	13161.8
57.5°	7758.5	7907.4	8305.8	9195.9	11260.2	14363.6	15627.9	15478.9	14512.6	14921.3	13508.1
60°	5638.8	5604.1	5870.8	6466.6	8485.9	12379.0	14775.8	14928.2	13968.8	13449.2	11139.0
62.5°	4592.8	4544.3	4565.1	4585.8	5476.0	8215.7	10938.1	10934.7	10758.0	9667.0	7512.6
65°	3671.4	3785.7	3796.1	3952.0	4066.3	4908.0	6338.4	6677.9	5815.4	4769.4	3460.2
67.5°	2767.4	2725.9	2864.4	3418.6	3633.3	3543.3	3460.2	3498.3	2486.9	1794.2	1690.2
70°	1631.4	1614.0	1780.3	2383.0	2992.6	2815.9	2608.1	2611.6	1707.6	1253.8	1395.8
72.5°	893.6	890.2	924.8	1208.8	1700.6	1766.4	1565.6	1614.0	1018.3	1014.8	1091.0
75°	498.8	488.4	478.0	533.4	613.1	647.7	661.6	668.5	699.7	782.8	814.0
77.5°	183.6	176.6	176.6	204.4	259.8	325.6	412.2	419.1	495.3	568.0	599.2
80°	62.3	69.3	93.5	128.2	173.2	232.1	280.6	287.5	349.8	398.3	408.7
82.5°	38.1	41.6	62.3	90.1	124.7	162.8	207.8	211.3	259.8	290.9	304.8
85°	17.3	20.8	34.6	55.4	79.7	107.4	110.8	110.8	107.4	110.8	103.9
87.5°	0.0	0.0	6.9	6.9	6.9	10.4	13.9	10.4	17.3	20.8	20.8
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°	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0	10474.0
2.5°	10380.5	10342.4	10224.6	10120.7	10089.5	9951.0	9746.6	9770.9	9621.9	9691.2	9618.5
5°	10238.5	10110.3	9809.0	9680.8	9344.8	9192.5	9088.5	8828.8	8707.5	8683.3	8579.4
7.5°	9874.8	9795.1	9417.6	9071.2	8714.5	8409.7	8018.3	7751.6	7561.1	7509.1	7356.7
10°	9587.3	9410.7	8887.7	8361.2	7852.0	7322.1	6812.9	6414.6	6220.7	5995.5	5919.3
12.5°	9303.3	9036.6	8330.0	7654.6	6996.5	6328.0	5711.5	5226.6	4804.0	4703.6	4669.0
15°	9126.6	8662.5	7831.2	7017.3	6082.1	5209.3	4592.8	4274.1	4014.3	3907.0	3983.2
17.5°	8894.6	8354.3	7353.3	6269.2	5240.5	4436.9	3920.8	3723.4	3629.9	3640.3	3609.1
20°	8603.6	8063.3	6726.4	5590.3	4488.9	3848.1	3553.7	3480.9	3494.8	3519.0	3508.6
22.5°	8395.8	7710.0	6272.6	4897.6	3879.3	3522.5	3401.3	3349.3	3394.3	3415.1	3397.8
25°	8236.5	7408.7	5721.9	4284.5	3526.0	3338.9	3283.5	3280.0	3349.3	3377.0	3359.7
27.5°	8091.0	7128.1	5174.6	3816.9	3290.4	3196.9	3179.6	3221.2	3266.2	3293.9	3318.1
30°	8004.4	6913.4	4662.0	3425.5	3172.7	3127.6	3096.5	3134.6	3158.8	3186.5	3172.7
32.5°	8087.6	6761.0	4166.7	3203.8	3075.7	3030.7	3072.2	3048.0	3089.6	3113.8	3075.7
35°	8347.3	6625.9	3813.4	3086.1	2964.9	2982.2	2989.1	2978.7	2996.0	2975.3	3020.3
37.5°	8603.6	6577.4	3487.9	2985.6	2912.9	2912.9	2906.0	2885.2	2919.8	2912.9	2933.7
40°	8929.2	6608.6	3210.8	2878.3	2864.4	2857.5	2829.8	2826.3	2812.5	2815.9	2822.9
42.5°	9213.2	6677.9	3051.5	2809.0	2819.4	2833.2	2781.3	2739.7	2757.0	2722.4	2722.4
45°	9514.6	6740.2	2909.4	2760.5	2750.1	2746.7	2705.1	2680.8	2667.0	2670.5	2701.6
47.5°	9989.1	6830.3	2802.1	2694.7	2701.6	2649.7	2639.3	2608.1	2622.0	2642.7	2646.2
50°	10325.1	7020.8	2718.9	2618.5	2642.7	2608.1	2545.8	2531.9	2531.9	2566.5	2559.6
52.5°	10560.6	7287.5	2639.3	2535.4	2545.8	2518.1	2497.3	2466.1	2445.3	2493.8	2518.1
55°	11281.0	7730.8	2618.5	2466.1	2462.6	2434.9	2396.8	2365.7	2355.3	2362.2	2410.7
57.5°	11211.7	7592.3	2552.7	2344.9	2337.9	2299.8	2261.7	2251.4	2247.9	2254.8	2268.7
60°	9102.4	5607.6	2279.1	2206.3	2195.9	2189.0	2150.9	2109.3	2088.6	2109.3	2092.0
62.5°	6023.2	3754.6	2008.9	2040.1	2047.0	2029.7	1967.3	1925.8	1932.7	1956.9	1918.8
65°	2957.9	2206.3	1821.9	1905.0	1911.9	1863.4	1804.5	1756.1	1731.8	1752.6	1735.3
67.5°	1690.2	1686.8	1669.5	1756.1	1752.6	1704.1	1610.6	1569.0	1527.5	1534.4	1524.0
70°	1433.9	1461.6	1496.3	1548.2	1544.8	1489.4	1378.5	1347.3	1288.5	1281.5	1264.2
72.5°	1129.1	1177.6	1253.8	1291.9	1260.8	1191.5	1118.7	1066.8	1014.8	983.7	994.1
75°	838.2	907.5	949.0	973.3	924.8	886.7	827.8	765.5	703.1	675.4	665.0
77.5°	609.6	630.4	668.5	685.8	654.6	616.5	581.9	519.5	460.7	422.6	412.2
80°	426.0	439.9	467.6	467.6	467.6	450.3	405.2	342.9	304.8	270.2	263.2
82.5°	297.9	311.7	339.4	325.6	322.1	301.3	273.6	225.1	183.6	159.3	152.4
85°	103.9	114.3	138.5	166.3	176.6	173.2	155.9	124.7	97.0	79.7	72.7
87.5°	24.2	24.2	27.7	24.2	24.2	27.7	24.2	24.2	24.2	17.3	13.9
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)