

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: P534173

Luminaire Tested: **GALN-SA9C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28495 lumens
Efficiency: N/A
Efficacy: 59.2 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

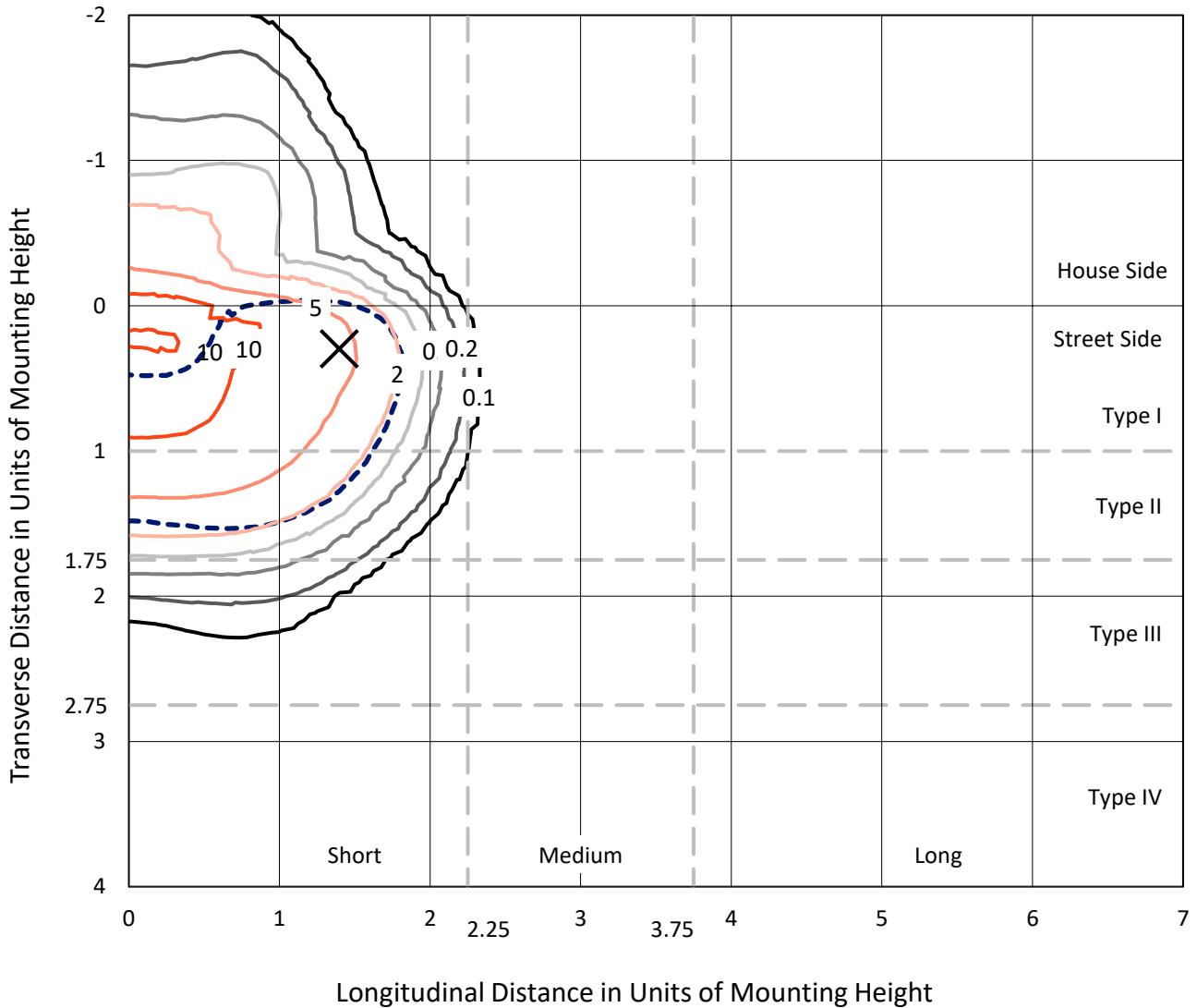
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

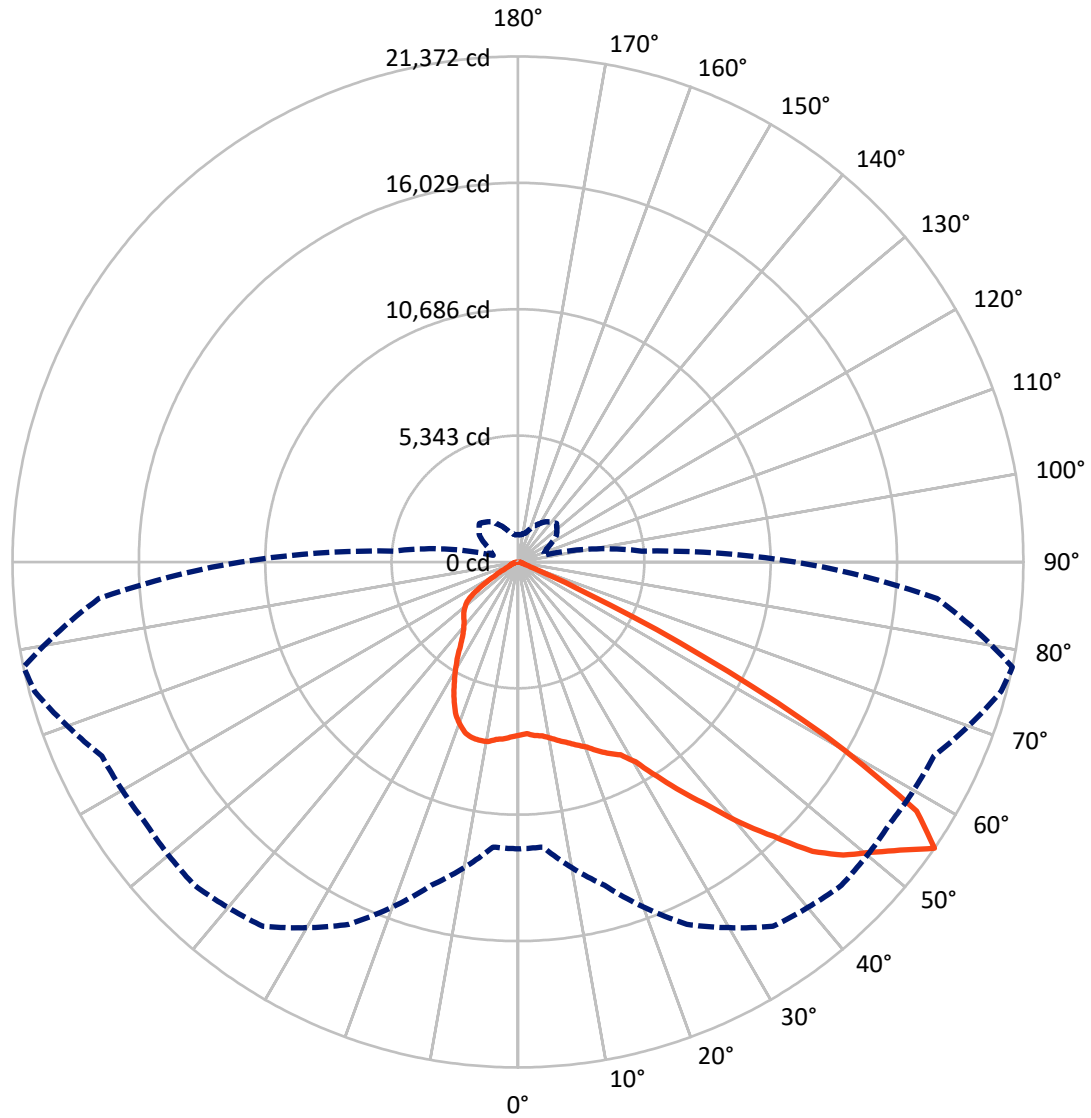
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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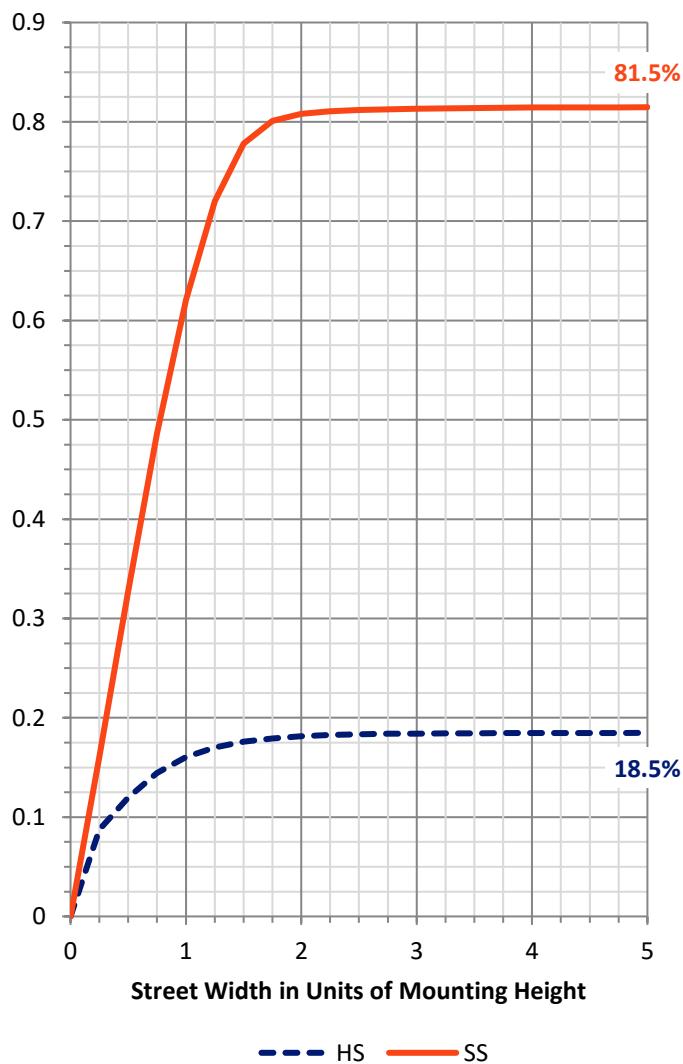
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5292.6	0.0	5292.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23202.4	0.0	23202.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	28495.0	0.0	28495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.3	2.3
10°-20°	1728.8	6.1
20°-30°	3030.4	10.6
30°-40°	4996.7	17.5
40°-50°	7270.8	25.5
50°-60°	8238.6	28.9
60°-70°	2355.6	8.3
70°-80°	182.9	0.6
80°-90°	38.1	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°	28495.0	100.0
0°-180°	28495.0	100.0

Coefficient of Utilization



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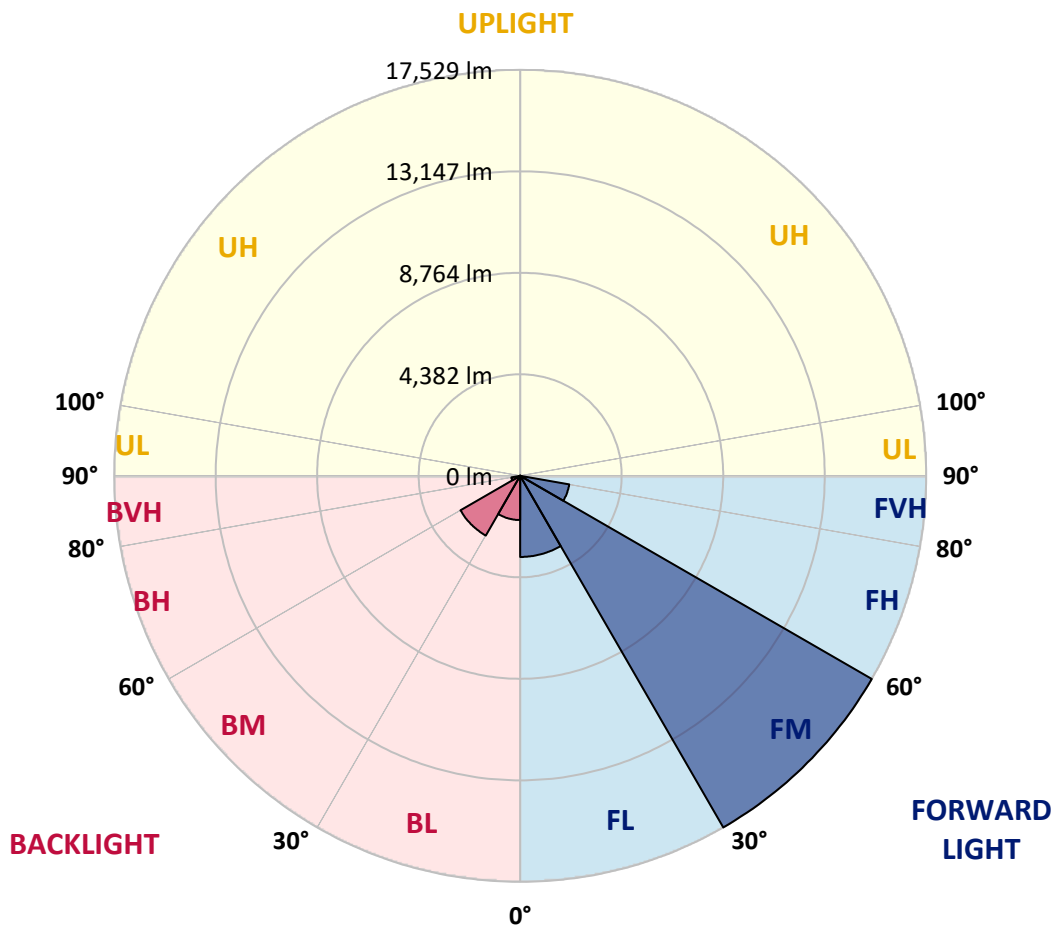
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3502.9	12.3			
FM (30°-60°)	17528.9	61.5			
FH (60°-80°)	2152.1	7.6			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	1909.6	6.7	B3/2500		
BM (30°-60°)	2977.2	10.4	B3/5000		
BH (60°-80°)	386.3	1.4	B1/500		G1/500
BVH (80°-90°)	19.5	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°	78°	85°
0°	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1
2.5°	6887.9	6954.2	6964.4	7045.9	7040.8	7178.3	7219.1	7224.2	7315.9	7270.0	7387.2
5°	6694.3	6658.7	6643.4	6786.1	6826.8	6949.1	7051.0	7112.1	7300.6	7366.8	7489.1
7.5°	6521.1	6521.1	6531.3	6658.7	6643.4	6801.3	6908.3	7096.8	7371.9	7428.0	7575.7
10°	6353.0	6291.9	6368.3	6500.8	6612.8	6684.2	6908.3	7086.6	7407.6	7570.6	7774.4
12.5°	6266.4	6297.0	6307.2	6404.0	6526.2	6740.2	6862.5	7158.0	7662.3	7759.1	7978.2
15°	6811.5	6750.4	6602.6	6516.0	6617.9	6719.8	7025.5	7326.1	7794.8	7932.3	8176.9
17.5°	7443.3	7392.3	7270.0	7035.7	6806.4	6994.9	7234.4	7509.5	7937.4	8141.2	8502.9
20°	8268.6	8187.1	8064.8	7606.3	7407.6	7203.8	7458.5	7784.6	8171.8	8355.2	8727.1
22.5°	9251.9	9251.9	8976.7	8421.4	8008.8	7815.2	7922.2	8110.7	8431.6	8681.3	9048.1
25°	10275.9	10245.3	9995.7	9420.0	8722.0	8492.8	8615.0	8747.5	8834.1	8971.6	9216.2
27.5°	11447.6	11269.3	10953.5	10316.6	9700.2	9256.9	9389.4	9272.2	9165.2	9236.6	9588.1
30°	12242.4	12354.5	11952.0	11340.7	10759.9	10265.7	10291.2	10189.3	9700.2	9802.1	10011.0
32.5°	13067.7	13139.1	12914.9	12578.6	11997.9	11422.2	11213.3	11126.7	10759.9	10805.7	10601.9
35°	13755.5	13893.1	13694.4	13546.6	13378.5	12914.9	12339.2	12619.4	12028.4	11916.3	11386.5
37.5°	14387.2	14346.5	14580.8	14428.0	14392.3	14066.3	13434.5	13490.6	13093.2	13067.7	12456.4
40°	14952.7	14962.9	15283.9	15355.2	15212.6	14631.8	13714.8	14158.0	14478.9	14509.5	13724.9
42.5°	15421.5	15559.0	15834.1	16409.8	16195.8	15227.9	14005.1	14489.1	15681.3	15869.8	14927.3
45°	15829.0	16109.2	16450.6	16965.1	16842.9	16073.6	14728.6	15171.8	16965.1	17459.3	16058.3
47.5°	15854.5	16221.3	16593.2	17357.4	17510.3	16527.0	15477.5	16251.9	17984.1	18519.0	16883.6
50°	15752.6	15946.2	16690.0	17520.4	17866.9	17265.7	16527.0	17158.7	18972.4	19308.7	17301.4
52.5°	14545.2	14692.9	16185.6	17673.3	18508.8	18101.2	17917.8	18422.2	19981.1	20230.8	17693.7
55°	12125.2	12099.8	14152.9	16904.0	18804.3	19339.2	19227.1	19405.5	21147.8	21372.0	17790.5
57.5°	8294.1	8757.7	10530.6	14076.5	16995.7	19048.8	19166.0	18870.5	19787.6	19874.2	15508.1
60°	4473.1	4666.7	6093.2	9394.5	12940.4	15523.3	15829.0	15294.1	15222.8	14978.2	11070.6
62.5°	1778.0	1874.8	2684.9	4651.4	7051.0	9435.3	10092.5	9873.4	9404.7	8762.8	5731.5
65°	845.7	906.8	1334.8	2175.4	3128.1	3933.1	4590.3	4794.0	3535.7	3184.1	1890.1
67.5°	575.7	621.5	973.1	1243.1	1115.7	1166.7	1518.2	1411.2	830.4	708.2	524.7
70°	438.1	468.7	779.5	845.7	499.3	351.5	392.3	366.8	341.3	346.4	341.3
72.5°	310.8	336.2	570.6	499.3	219.1	163.0	208.9	249.6	249.6	249.6	244.5
75°	188.5	214.0	331.2	193.6	86.6	86.6	132.5	168.1	178.3	183.4	173.2
77.5°	96.8	122.3	112.1	56.0	56.0	66.2	96.8	117.2	127.4	127.4	122.3
80°	20.4	20.4	20.4	30.6	56.0	71.3	96.8	107.0	122.3	122.3	112.1
82.5°	0.0	5.1	15.3	30.6	50.9	66.2	91.7	107.0	122.3	127.4	117.2
85°	0.0	5.1	10.2	20.4	35.7	40.8	35.7	30.6	30.6	30.6	30.6
87.5°	0.0	0.0	5.1	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2
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°	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1	7326.1
2.5°	7397.4	7412.7	7387.2	7382.1	7361.7	7422.9	7275.1	7239.5	7331.2	7244.6	7264.9
5°	7494.2	7529.9	7484.0	7407.6	7295.5	7122.3	6974.6	6781.0	6689.3	6623.0	6612.8
7.5°	7565.5	7591.0	7545.2	7300.6	6964.4	6526.2	6200.2	5960.7	5772.2	5716.2	5624.5
10°	7855.9	7861.0	7631.8	7091.7	6434.5	5858.8	5359.6	4992.7	4804.2	4687.1	4636.1
12.5°	8049.5	8039.3	7575.7	6679.1	5802.8	5038.6	4468.0	4024.8	3851.5	3795.5	3759.8
15°	8294.1	8238.0	7443.3	6256.2	4987.6	4162.3	3647.8	3342.1	3326.8	3291.1	3326.8
17.5°	8487.7	8329.7	7249.7	5486.9	4208.2	3428.7	3092.4	3112.8	3153.6	3189.2	3194.3
20°	8803.5	8477.5	6806.4	4814.4	3484.7	2939.6	2934.5	3026.2	3128.1	3168.9	3209.6
22.5°	9043.0	8538.6	6332.6	4096.1	2893.8	2740.9	2827.5	2965.1	3041.5	3082.3	3143.4
25°	9129.6	8370.5	5700.9	3377.7	2608.5	2649.2	2781.7	2873.4	2970.2	3016.0	2990.5
27.5°	9216.2	8283.9	4946.9	2781.7	2455.6	2588.1	2700.2	2791.9	2822.4	2883.6	2924.3
30°	9425.1	7983.3	4269.3	2404.7	2379.2	2547.3	2628.8	2659.4	2740.9	2776.6	2776.6
32.5°	9593.2	7866.1	3551.0	2226.4	2369.0	2567.7	2577.9	2577.9	2588.1	2562.6	2552.4
35°	9939.6	7463.6	2909.0	2119.4	2363.9	2572.8	2598.3	2511.7	2277.3	2185.6	2160.1
37.5°	10367.6	7203.8	2435.2	2093.9	2399.6	2633.9	2674.7	2348.6	2042.9	1895.2	1869.7
40°	10887.2	7020.4	2124.5	2083.7	2481.1	2776.6	2654.3	2221.3	1823.9	1609.9	1599.7
42.5°	11493.5	6852.3	1915.6	2078.6	2583.0	2924.3	2633.9	2114.3	1599.7	1457.1	1477.4
45°	11977.5	6760.6	1772.9	2042.9	2618.6	3010.9	2649.2	1925.8	1508.0	1416.3	1426.5
47.5°	12354.5	6567.0	1655.8	1981.8	2613.5	3041.5	2511.7	1849.4	1462.2	1487.6	1513.1
50°	12364.7	6307.2	1508.0	1849.4	2537.1	2985.5	2353.7	1778.0	1452.0	1559.0	1609.9
52.5°	12227.1	5940.3	1350.1	1660.9	2358.8	2791.9	2211.1	1747.5	1406.1	1395.9	1457.1
55°	11738.0	5252.6	1085.2	1345.0	1992.0	2302.8	2083.7	1691.4	1268.6	1151.4	1161.6
57.5°	9486.2	3764.9	799.9	962.9	1411.2	1686.3	1879.9	1665.9	1141.2	978.2	983.3
60°	5874.1	2134.7	585.9	657.2	871.2	1024.0	1523.3	1548.8	1018.9	825.3	815.1
62.5°	3016.0	1054.6	453.4	463.6	534.9	601.2	1044.4	1299.1	922.1	784.6	784.6
65°	1008.7	519.7	397.4	356.6	356.6	371.9	631.7	901.7	779.5	657.2	657.2
67.5°	433.0	387.2	346.4	310.8	285.3	270.0	356.6	524.7	580.8	499.3	478.9
70°	336.2	326.1	300.6	259.8	224.2	203.8	208.9	270.0	331.2	321.0	310.8
72.5°	249.6	249.6	239.4	203.8	173.2	147.7	137.6	142.6	157.9	163.0	168.1
75°	173.2	178.3	178.3	157.9	127.4	107.0	91.7	76.4	61.1	50.9	45.9
77.5°	117.2	122.3	132.5	117.2	96.8	71.3	56.0	40.8	25.5	10.2	10.2
80°	101.9	117.2	127.4	117.2	101.9	76.4	56.0	30.6	15.3	0.0	0.0
82.5°	107.0	117.2	132.5	112.1	96.8	71.3	56.0	35.7	15.3	5.1	0.0
85°	25.5	25.5	30.6	35.7	45.9	50.9	40.8	25.5	15.3	5.1	0.0
87.5°	10.2	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1	0.0	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)