

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: P532992

Luminaire Tested: **GALN-SA8B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532992
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-SA8B-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 28576 lumens
Efficiency: N/A
Efficacy: 87.9 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

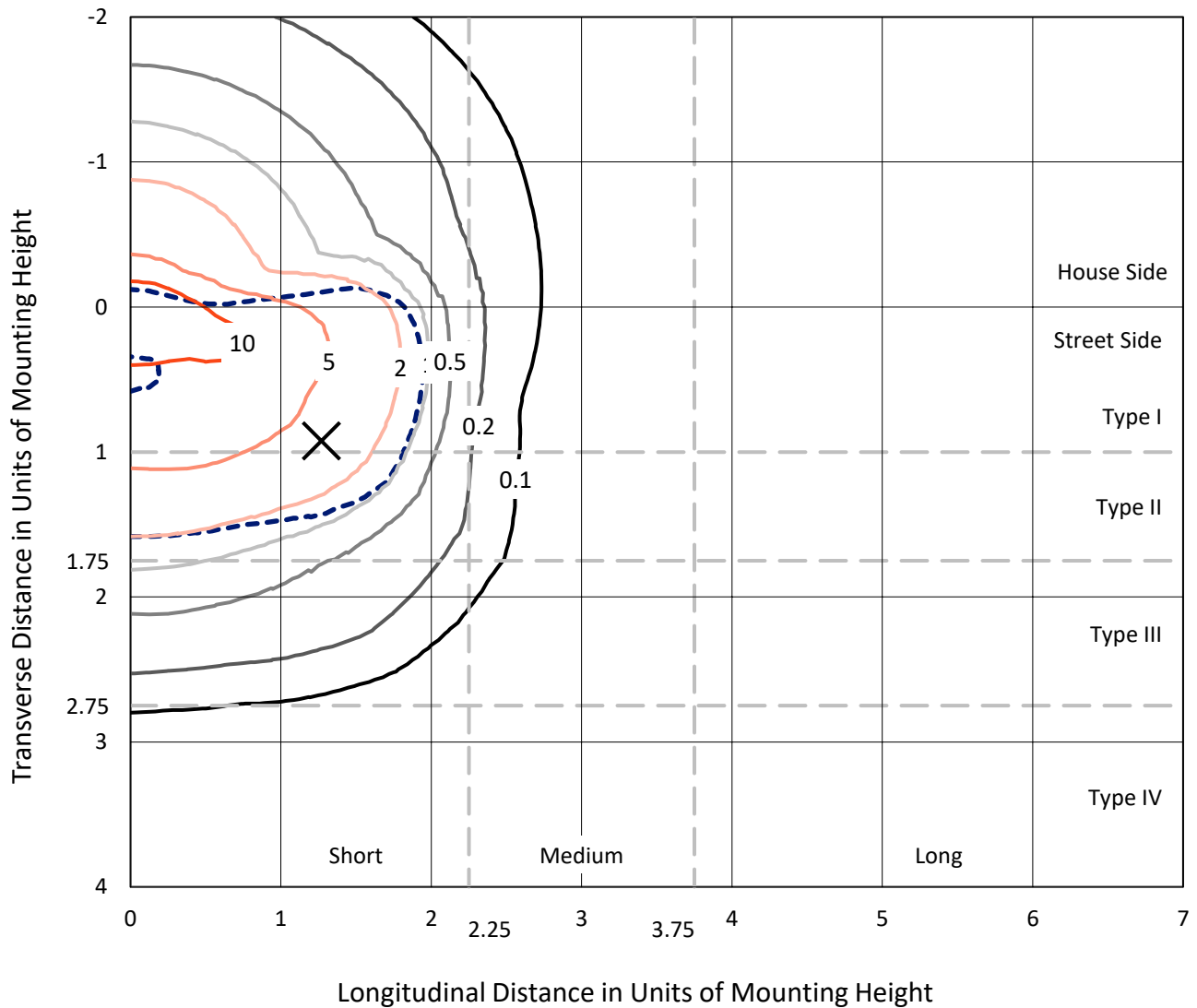
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

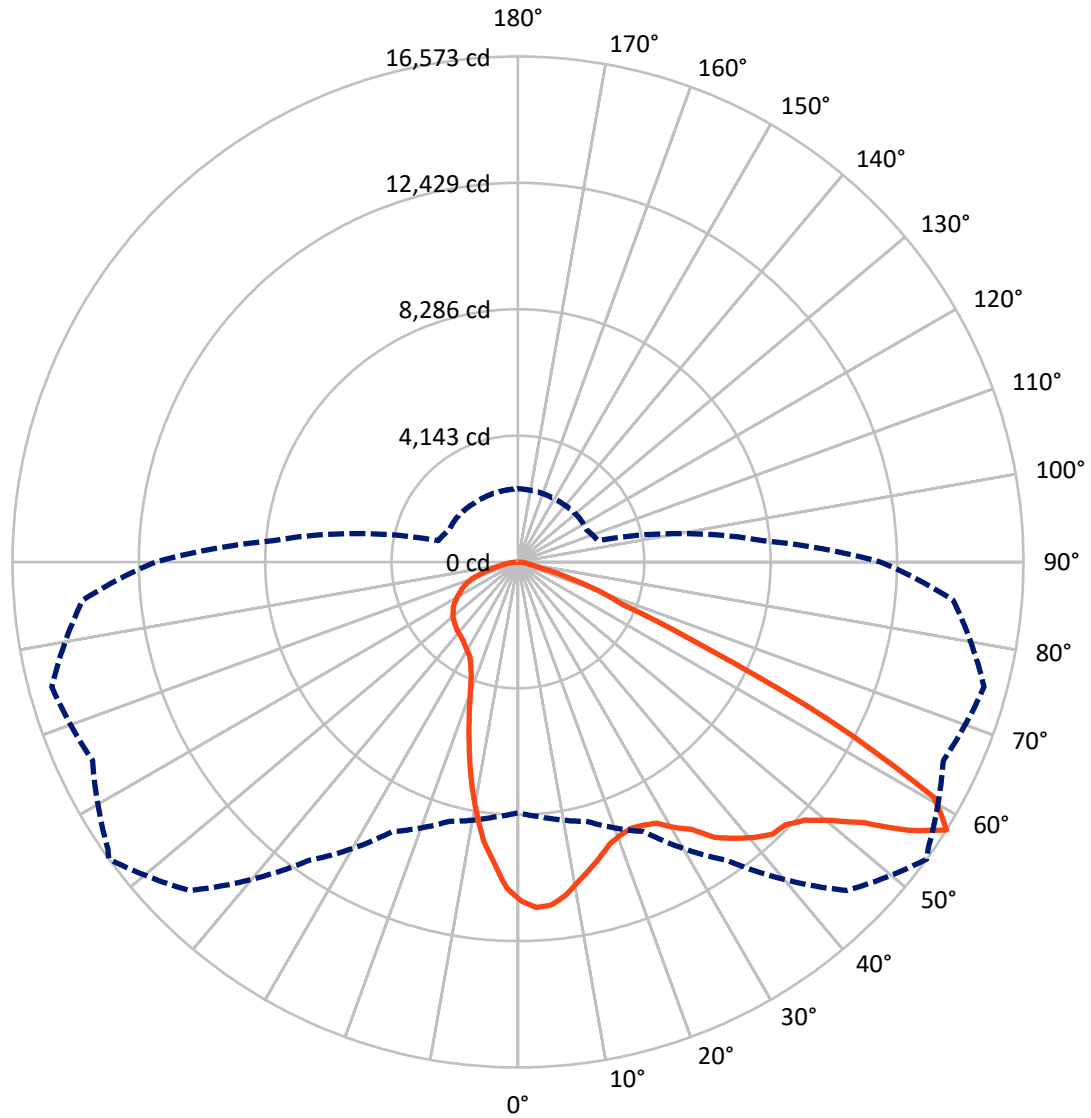
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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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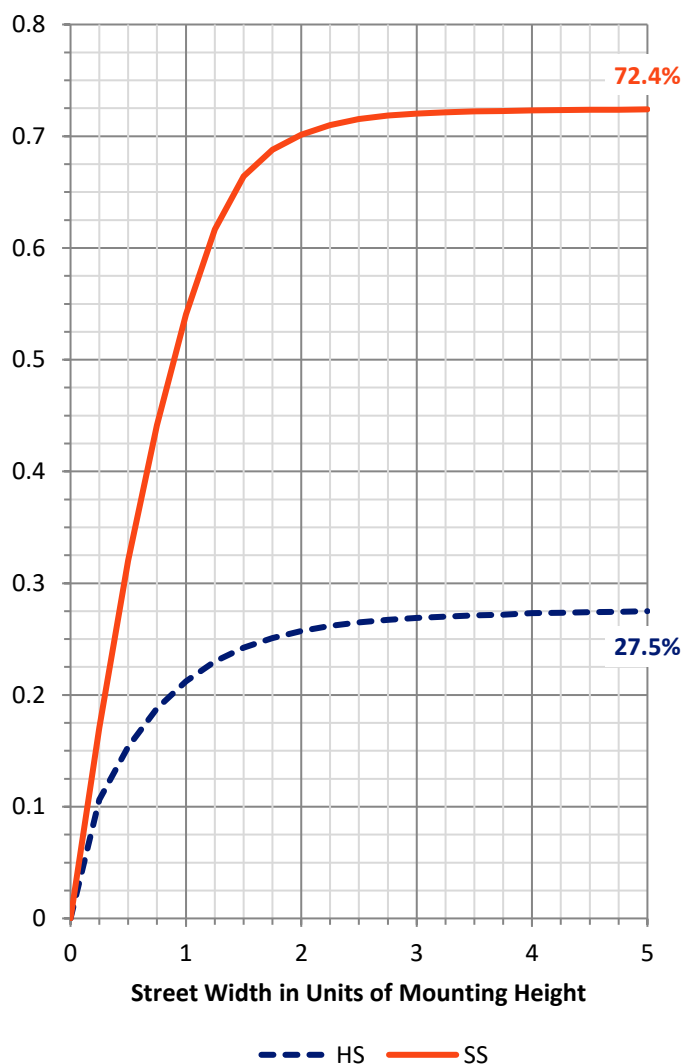
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7905.7	0.0	7905.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	20670.3	0.0	20670.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	28576.0	0.0	28576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.9	3.4
10°-20°	2217.9	7.8
20°-30°	3116.1	10.9
30°-40°	4356.4	15.2
40°-50°	5897.7	20.6
50°-60°	7183.6	25.1
60°-70°	3741.5	13.1
70°-80°	958.7	3.4
80°-90°	146.2	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°	28576.0	100.0
0°-180°	28576.0	100.0

Coefficient of Utilization



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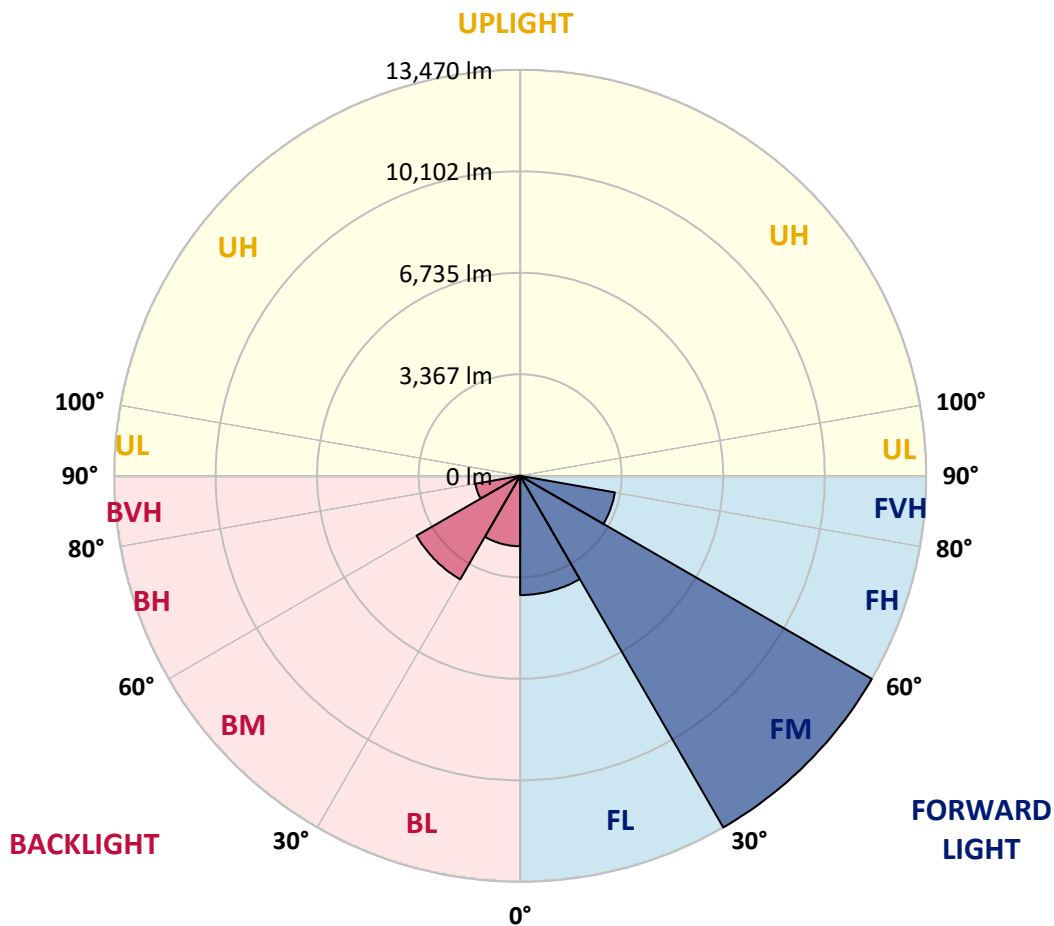
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3955.3	13.8			
FM (30°-60°)	13469.8	47.1			
FH (60°-80°)	3189.9	11.2			G2/5000
FVH (80°-90°)	55.3	0.2			G1/100
BL (0°-30°)	2336.5	8.2	B3/2500		
BM (30°-60°)	3967.8	13.9	B3/5000		
BH (60°-80°)	1510.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	91.0	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°	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2
2.5°	11423.0	11379.0	11386.3	11445.1	11371.6	11342.2	11342.2	11199.0	11210.0	11110.8	11085.1
5°	11158.6	11055.7	11125.5	11213.7	11228.4	11257.8	11305.5	11268.8	11165.9	11059.4	10886.8
7.5°	10468.1	10559.9	10585.6	10648.0	10780.3	10901.5	11052.1	10949.2	10945.6	10839.0	10736.2
10°	9862.0	9806.9	9946.5	10038.3	10258.7	10460.7	10692.1	10681.1	10736.2	10615.0	10438.7
12.5°	9259.6	9215.6	9281.7	9491.0	9799.6	10093.4	10368.9	10266.0	10559.9	10537.8	10159.5
15°	8620.5	8653.6	8749.1	8943.8	9347.8	9700.4	10049.3	10053.0	10313.8	10401.9	9895.1
17.5°	8172.4	8135.7	8256.9	8547.1	8907.0	9329.4	9726.1	9806.9	10207.3	10258.7	9814.3
20°	7838.2	7889.6	8047.6	8194.5	8609.5	9120.1	9568.2	9597.6	10185.2	10324.8	9685.7
22.5°	7757.4	7728.0	7779.4	8018.2	8359.8	8914.4	9483.7	9593.9	10181.6	10302.8	9443.3
25°	7672.9	7768.4	7764.7	8003.5	8253.2	8749.1	9553.5	9674.7	10376.2	10416.6	9476.4
27.5°	7863.9	7852.9	7955.7	7974.1	8282.6	8793.2	9700.4	9792.2	10699.5	10666.4	9502.1
30°	8054.9	7999.8	8062.2	8279.0	8422.2	9046.6	10104.4	10097.1	11118.2	11096.1	9582.9
32.5°	8290.0	8264.3	8304.7	8495.7	8738.1	9384.5	10446.0	10662.7	11544.3	11683.8	9862.0
35°	8334.0	8440.6	8536.1	8793.2	9138.4	9931.8	11088.8	11268.8	12036.4	12473.5	10394.6
37.5°	8613.2	8653.6	8877.7	9333.1	9649.0	10662.7	11496.5	11610.4	12484.5	12980.4	10956.6
40°	8910.7	8958.5	9296.4	9773.9	10207.3	11140.2	11878.5	11915.2	12627.8	13369.7	11323.9
42.5°	9314.7	9358.8	9693.1	10291.8	10872.1	11547.9	12216.4	12256.8	12616.8	13817.8	11907.9
45°	9733.5	9840.0	10233.0	10912.5	11434.1	12025.4	12293.5	12458.8	12719.6	14218.2	12381.7
47.5°	10321.1	10420.3	10743.5	11408.4	12018.1	12444.1	12649.8	12811.4	12965.7	14567.1	12686.6
50°	10945.6	10963.9	11356.9	11959.3	12407.4	12918.0	13314.6	13369.7	13288.9	14971.2	13204.4
52.5°	11404.7	11463.4	11768.3	12356.0	13024.5	13652.6	14196.2	14254.9	14097.0	15121.8	13380.8
55°	10644.4	10611.3	11107.2	11889.5	13439.5	14747.1	15536.8	15580.9	14684.7	15588.2	13957.4
57.5°	8227.5	8385.5	8807.9	9751.8	11940.9	15231.9	16572.6	16414.7	15389.9	15823.3	14324.7
60°	5979.7	5942.9	6225.7	6857.5	8998.9	13127.3	15669.0	15830.6	14813.2	14262.3	11812.4
62.5°	4870.4	4819.0	4841.0	4863.1	5807.0	8712.4	11599.3	11595.7	11408.4	10251.4	7966.7
65°	3893.4	4014.6	4025.6	4190.9	4312.1	5204.6	6721.6	7081.6	6167.0	5057.7	3669.3
67.5°	2934.7	2890.7	3037.6	3625.3	3853.0	3757.5	3669.3	3709.7	2637.2	1902.6	1792.4
70°	1730.0	1711.6	1887.9	2527.0	3173.5	2986.2	2765.8	2769.4	1810.8	1329.6	1480.2
72.5°	947.6	944.0	980.7	1281.9	1803.4	1873.2	1660.2	1711.6	1079.9	1076.2	1157.0
75°	528.9	517.9	506.9	565.6	650.1	686.9	701.5	708.9	741.9	830.1	863.2
77.5°	194.7	187.3	187.3	216.7	275.5	345.3	437.1	444.4	525.2	602.4	635.4
80°	66.1	73.5	99.2	135.9	183.7	246.1	297.5	304.9	371.0	422.4	433.4
82.5°	40.4	44.1	66.1	95.5	132.2	172.6	220.4	224.1	275.5	308.5	323.2
85°	18.4	22.0	36.7	58.8	84.5	113.9	117.5	117.5	113.9	117.5	110.2
87.5°	0.0	0.0	7.3	7.3	7.3	11.0	14.7	11.0	18.4	22.0	22.0
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°	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2	11107.2
2.5°	11008.0	10967.6	10842.7	10732.5	10699.5	10552.5	10335.8	10361.5	10203.6	10277.1	10199.9
5°	10857.4	10721.5	10401.9	10266.0	9909.8	9748.2	9638.0	9362.5	9233.9	9208.2	9098.0
7.5°	10471.7	10387.3	9986.9	9619.6	9241.3	8918.1	8503.0	8220.2	8018.2	7963.1	7801.5
10°	10166.9	9979.6	9424.9	8866.6	8326.7	7764.7	7224.8	6802.4	6596.7	6358.0	6277.2
12.5°	9865.7	9582.9	8833.6	8117.3	7419.5	6710.6	6056.8	5542.6	5094.5	4987.9	4951.2
15°	9678.4	9186.2	8304.7	7441.5	6449.8	5524.2	4870.4	4532.5	4257.0	4143.1	4224.0
17.5°	9432.3	8859.3	7797.8	6648.1	5557.3	4705.1	4157.8	3948.5	3849.3	3860.3	3827.3
20°	9123.7	8550.8	7133.0	5928.2	4760.2	4080.7	3768.5	3691.4	3706.1	3731.8	3720.8
22.5°	8903.4	8176.1	6651.8	5193.6	4113.8	3735.4	3606.9	3551.8	3599.5	3621.6	3603.2
25°	8734.4	7856.6	6067.8	4543.5	3739.1	3540.8	3482.0	3478.3	3551.8	3581.2	3562.8
27.5°	8580.1	7559.0	5487.5	4047.7	3489.4	3390.2	3371.8	3415.9	3463.6	3493.0	3518.7
30°	8488.3	7331.3	4943.9	3632.6	3364.5	3316.7	3283.7	3324.1	3349.8	3379.2	3364.5
32.5°	8576.5	7169.7	4418.6	3397.5	3261.6	3213.9	3258.0	3232.2	3276.3	3302.0	3261.6
35°	8851.9	7026.5	4044.0	3272.6	3144.1	3162.5	3169.8	3158.8	3177.1	3155.1	3202.9
37.5°	9123.7	6975.0	3698.7	3166.1	3089.0	3089.0	3081.7	3059.6	3096.3	3089.0	3111.0
40°	9469.0	7008.1	3404.9	3052.3	3037.6	3030.2	3000.8	2997.2	2982.5	2986.2	2993.5
42.5°	9770.2	7081.6	3235.9	2978.8	2989.8	3004.5	2949.4	2905.3	2923.7	2887.0	2887.0
45°	10089.7	7147.7	3085.3	2927.4	2916.4	2912.7	2868.6	2842.9	2828.2	2831.9	2864.9
47.5°	10592.9	7243.2	2971.5	2857.6	2864.9	2809.8	2798.8	2765.8	2780.5	2802.5	2806.2
50°	10949.2	7445.2	2883.3	2776.8	2802.5	2765.8	2699.7	2685.0	2685.0	2721.7	2714.3
52.5°	11199.0	7728.0	2798.8	2688.6	2699.7	2670.3	2648.2	2615.2	2593.1	2644.6	2670.3
55°	11963.0	8198.1	2776.8	2615.2	2611.5	2582.1	2541.7	2508.7	2497.6	2505.0	2556.4
57.5°	11889.5	8051.2	2707.0	2486.6	2479.3	2438.9	2398.5	2387.5	2383.8	2391.1	2405.8
60°	9652.7	5946.6	2416.8	2339.7	2328.7	2321.3	2280.9	2236.9	2214.8	2236.9	2218.5
62.5°	6387.4	3981.5	2130.3	2163.4	2170.7	2152.4	2086.3	2042.2	2049.5	2075.2	2034.8
65°	3136.7	2339.7	1932.0	2020.2	2027.5	1976.1	1913.6	1862.2	1836.5	1858.5	1840.2
67.5°	1792.4	1788.8	1770.4	1862.2	1858.5	1807.1	1707.9	1663.9	1619.8	1627.1	1616.1
70°	1520.6	1550.0	1586.7	1641.8	1638.2	1579.4	1461.9	1428.8	1366.4	1359.0	1340.6
72.5°	1197.4	1248.8	1329.6	1370.0	1337.0	1263.5	1186.4	1131.3	1076.2	1043.1	1054.2
75°	888.9	962.3	1006.4	1032.1	980.7	940.3	877.8	811.7	745.6	716.2	705.2
77.5°	646.4	668.5	708.9	727.3	694.2	653.8	617.1	551.0	488.5	448.1	437.1
80°	451.8	466.5	495.9	495.9	495.9	477.5	429.7	363.6	323.2	286.5	279.1
82.5°	315.9	330.6	360.0	345.3	341.6	319.6	290.2	238.7	194.7	169.0	161.6
85°	110.2	121.2	146.9	176.3	187.3	183.7	165.3	132.2	102.8	84.5	77.1
87.5°	25.7	25.7	29.4	25.7	25.7	29.4	25.7	25.7	25.7	18.4	14.7
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)