

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: P530652

Luminaire Tested: **GALN-SA5D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530652
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-SA5D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 24093 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

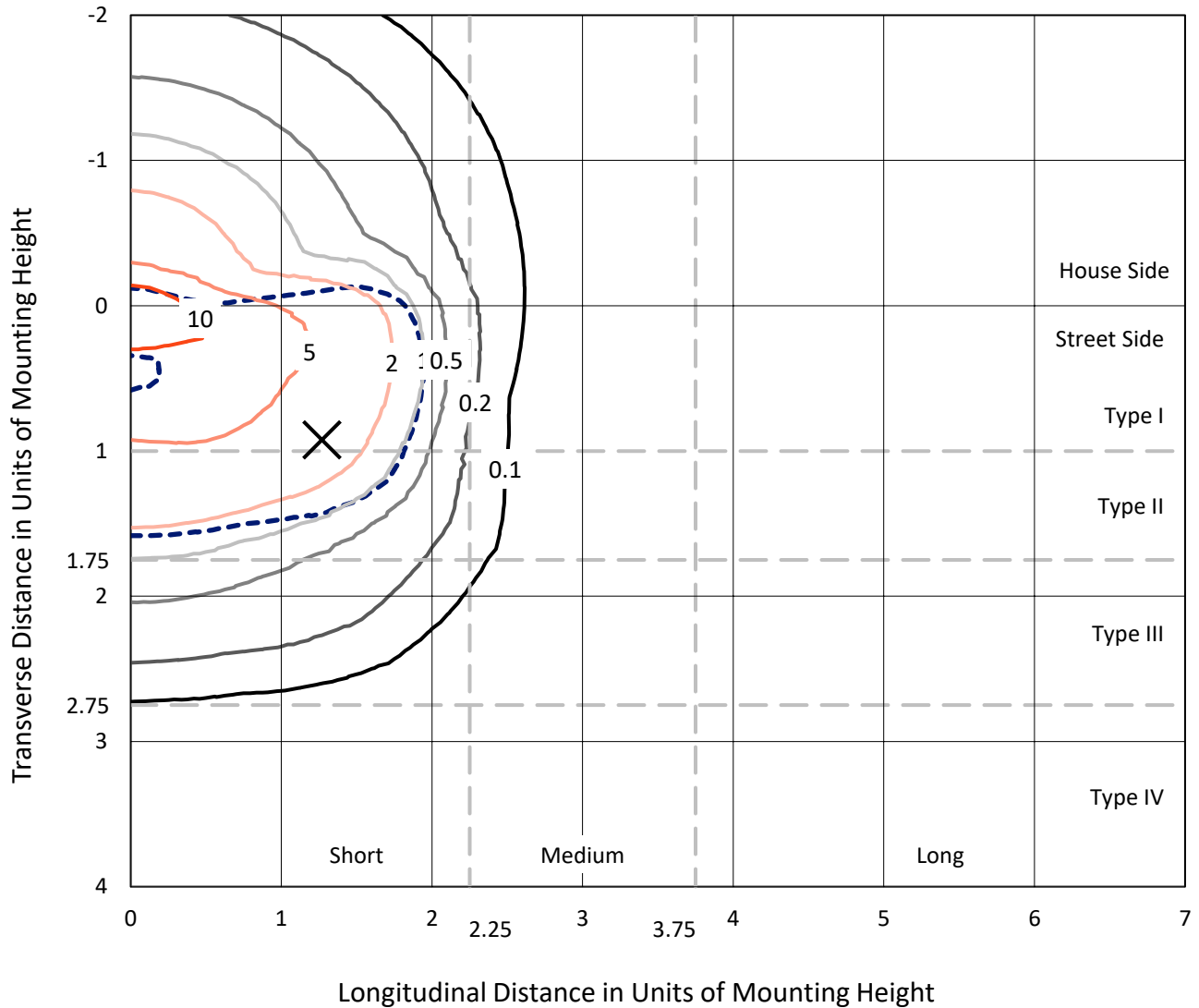
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

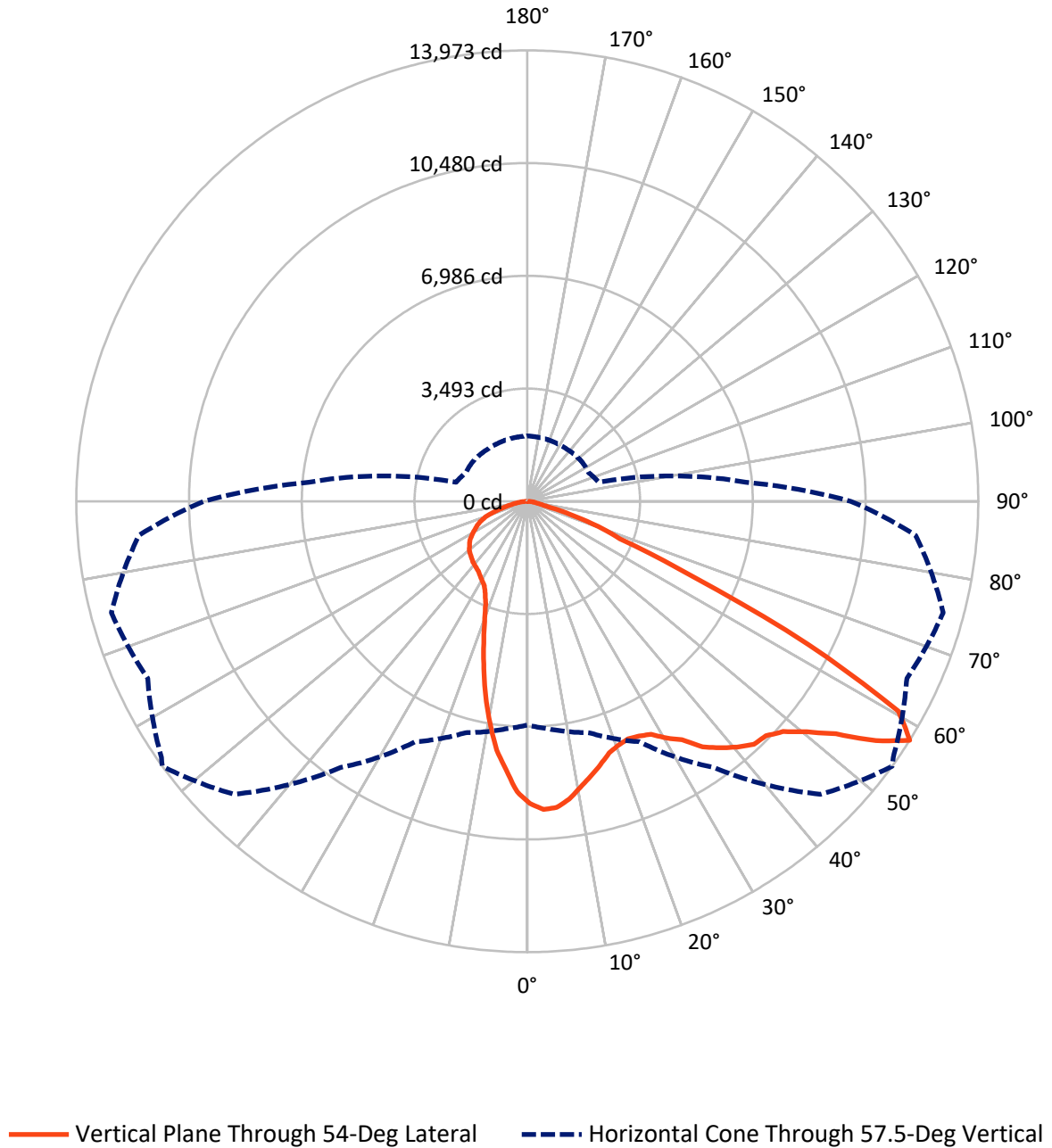
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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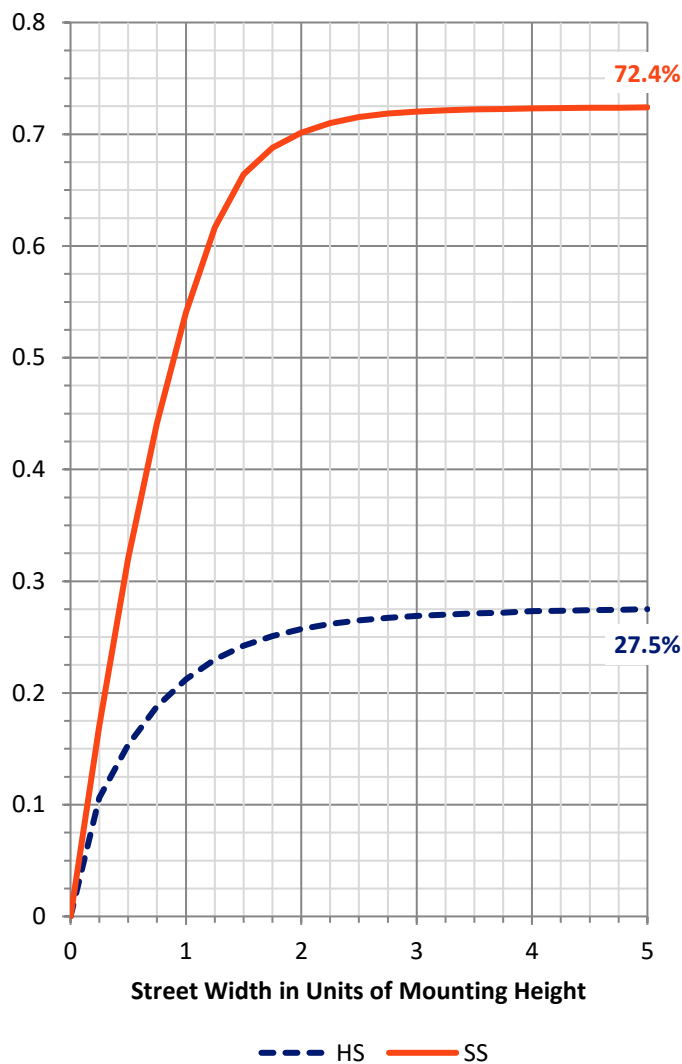
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6665.5	0.0	6665.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17427.5	0.0	17427.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	24093.0	0.0	24093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.6	3.4
10°-20°	1869.9	7.8
20°-30°	2627.3	10.9
30°-40°	3672.9	15.2
40°-50°	4972.4	20.6
50°-60°	6056.6	25.1
60°-70°	3154.6	13.1
70°-80°	808.3	3.4
80°-90°	123.3	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°	24093.0	100.0
0°-180°	24093.0	100.0

Coefficient of Utilization



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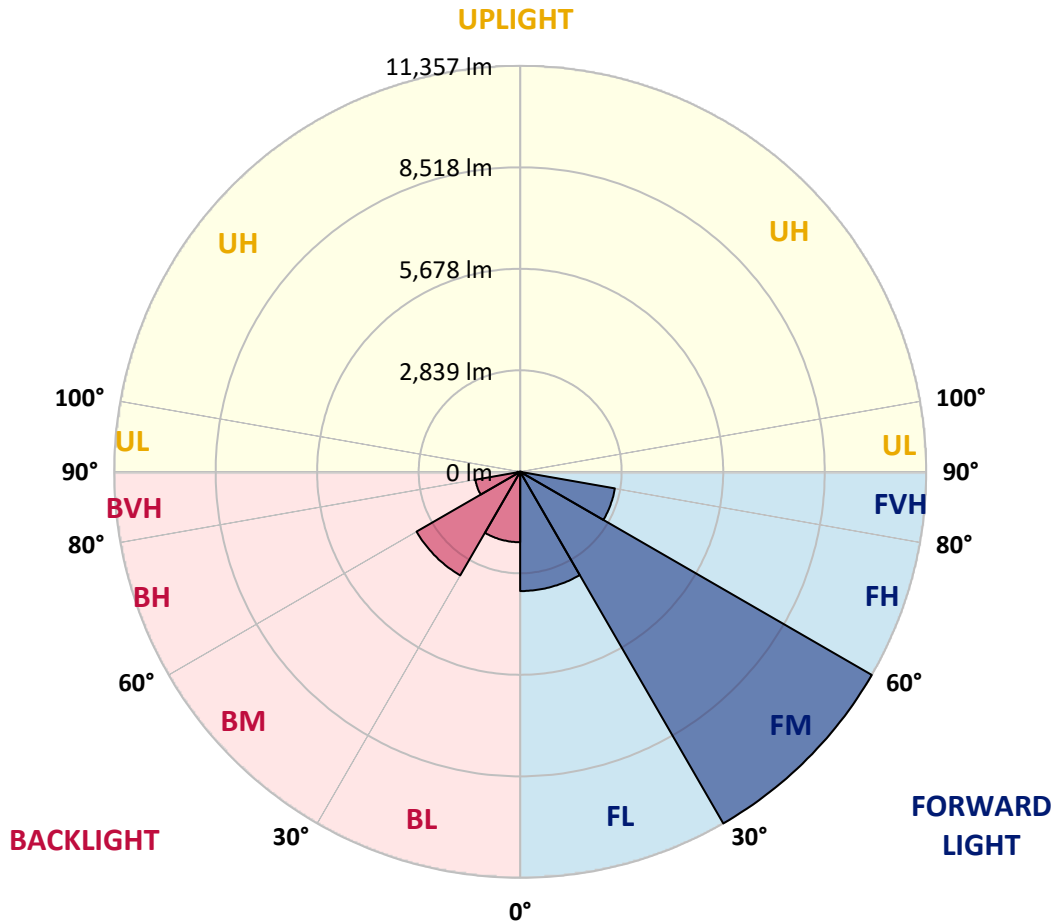
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3334.8	13.8			
FM (30°-60°)	11356.7	47.1			
FH (60°-80°)	2689.4	11.2			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	1970.0	8.2	B3/2500		
BM (30°-60°)	3345.3	13.9	B3/5000		
BH (60°-80°)	1273.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	76.7	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°	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7
2.5°	9631.0	9593.8	9600.0	9649.6	9587.6	9562.9	9562.9	9442.1	9451.4	9367.8	9346.1
5°	9408.0	9321.3	9380.2	9454.5	9466.9	9491.6	9531.9	9500.9	9414.2	9324.4	9178.9
7.5°	8825.8	8903.3	8924.9	8977.6	9089.1	9191.3	9318.2	9231.5	9228.4	9138.6	9051.9
10°	8314.9	8268.4	8386.1	8463.5	8649.3	8819.6	9014.7	9005.4	9051.9	8949.7	8801.1
12.5°	7807.0	7769.8	7825.6	8002.1	8262.2	8510.0	8742.2	8655.5	8903.3	8884.7	8565.7
15°	7268.2	7296.0	7376.5	7540.7	7881.3	8178.6	8472.8	8475.9	8695.8	8770.1	8342.7
17.5°	6890.3	6859.4	6961.6	7206.2	7509.7	7865.8	8200.3	8268.4	8606.0	8649.3	8274.6
20°	6608.5	6651.9	6785.1	6908.9	7258.9	7689.3	8067.1	8091.9	8587.4	8705.1	8166.2
22.5°	6540.4	6515.6	6559.0	6760.3	7048.3	7515.9	7995.9	8088.8	8584.3	8686.5	7961.8
25°	6469.2	6549.7	6546.6	6747.9	6958.5	7376.5	8054.7	8156.9	8748.4	8782.5	7989.7
27.5°	6630.2	6620.9	6707.6	6723.1	6983.2	7413.7	8178.6	8256.0	9020.9	8993.1	8011.4
30°	6791.2	6744.8	6797.4	6980.1	7100.9	7627.4	8519.3	8513.1	9374.0	9355.4	8079.5
32.5°	6989.4	6967.8	7001.8	7162.9	7367.2	7912.3	8807.3	8990.0	9733.2	9850.9	8314.9
35°	7026.6	7116.4	7196.9	7413.7	7704.8	8373.7	9349.2	9500.9	10148.2	10516.7	8763.9
37.5°	7262.0	7296.0	7484.9	7868.9	8135.3	8990.0	9692.9	9788.9	10526.0	10944.0	9237.7
40°	7512.8	7553.1	7838.0	8240.5	8606.0	9392.5	10015.0	10046.0	10646.7	11272.3	9547.4
42.5°	7853.4	7890.6	8172.4	8677.2	9166.5	9736.3	10299.9	10334.0	10637.5	11650.1	10039.8
45°	8206.5	8296.3	8627.6	9200.5	9640.3	10138.9	10364.9	10504.3	10724.2	11987.6	10439.3
47.5°	8702.0	8785.6	9058.1	9618.6	10132.7	10491.9	10665.3	10801.6	10931.6	12281.8	10696.3
50°	9228.4	9243.9	9575.3	10083.1	10460.9	10891.4	11225.8	11272.3	11204.2	12622.5	11132.9
52.5°	9615.5	9665.1	9922.1	10417.6	10981.2	11510.7	11969.1	12018.6	11885.5	12749.5	11281.6
55°	8974.5	8946.6	9364.7	10024.3	11331.1	12433.6	13099.4	13136.6	12380.9	13142.7	11767.8
57.5°	6936.8	7070.0	7426.1	8222.0	10067.6	12842.4	13972.7	13839.5	12975.5	13340.9	12077.5
60°	5041.6	5010.6	5249.0	5781.7	7587.1	11067.9	13210.9	13347.1	12489.3	12024.8	9959.3
62.5°	4106.3	4063.0	4081.6	4100.1	4896.0	7345.6	9779.6	9776.5	9618.6	8643.1	6716.9
65°	3282.6	3384.8	3394.1	3533.4	3635.6	4388.1	5667.1	5970.6	5199.5	4264.3	3093.7
67.5°	2474.3	2437.2	2561.0	3056.5	3248.5	3168.0	3093.7	3127.8	2223.5	1604.1	1511.2
70°	1458.6	1443.1	1591.7	2130.6	2675.6	2517.7	2331.9	2335.0	1526.7	1121.0	1248.0
72.5°	799.0	795.9	826.8	1080.8	1520.5	1579.4	1399.7	1443.1	910.5	907.4	975.5
75°	445.9	436.6	427.4	476.9	548.1	579.1	591.5	597.7	625.6	699.9	727.7
77.5°	164.1	157.9	157.9	182.7	232.3	291.1	368.5	374.7	442.8	507.9	535.7
80°	55.7	61.9	83.6	114.6	154.8	207.5	250.8	257.0	312.8	356.1	365.4
82.5°	34.1	37.2	55.7	80.5	111.5	145.5	185.8	188.9	232.3	260.1	272.5
85°	15.5	18.6	31.0	49.5	71.2	96.0	99.1	99.1	96.0	99.1	92.9
87.5°	0.0	0.0	6.2	6.2	6.2	9.3	12.4	9.3	15.5	18.6	18.6
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°	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7	9364.7
2.5°	9281.1	9247.0	9141.7	9048.8	9020.9	8897.1	8714.3	8736.0	8602.9	8664.8	8599.8
5°	9154.1	9039.5	8770.1	8655.5	8355.1	8218.9	8126.0	7893.7	7785.3	7763.6	7670.7
7.5°	8828.9	8757.7	8420.2	8110.5	7791.5	7519.0	7169.1	6930.6	6760.3	6713.8	6577.6
10°	8571.9	8414.0	7946.3	7475.6	7020.4	6546.6	6091.4	5735.2	5561.8	5360.5	5292.4
12.5°	8318.0	8079.5	7447.8	6843.9	6255.5	5657.8	5106.6	4673.0	4295.2	4205.4	4174.5
15°	8160.0	7745.1	7001.8	6274.1	5438.0	4657.6	4106.3	3821.4	3589.2	3493.2	3561.3
17.5°	7952.5	7469.4	6574.5	5605.2	4685.4	3967.0	3505.6	3329.0	3245.4	3254.7	3226.8
20°	7692.4	7209.3	6014.0	4998.2	4013.4	3440.5	3177.3	3112.3	3124.7	3146.3	3137.0
22.5°	7506.6	6893.4	5608.3	4378.9	3468.4	3149.4	3041.0	2994.6	3034.8	3053.4	3037.9
25°	7364.2	6624.0	5115.9	3830.7	3152.5	2985.3	2935.8	2932.7	2994.6	3019.4	3003.9
27.5°	7234.1	6373.2	4626.6	3412.7	2941.9	2858.3	2842.8	2880.0	2920.3	2945.0	2966.7
30°	7156.7	6181.2	4168.3	3062.7	2836.7	2796.4	2768.5	2802.6	2824.3	2849.0	2836.7
32.5°	7231.0	6044.9	3725.4	2864.5	2749.9	2709.7	2746.8	2725.2	2762.3	2784.0	2749.9
35°	7463.2	5924.1	3409.6	2759.2	2650.8	2666.3	2672.5	2663.2	2678.7	2660.1	2700.4
37.5°	7692.4	5880.8	3118.5	2669.4	2604.4	2604.4	2598.2	2579.6	2610.6	2604.4	2623.0
40°	7983.5	5908.7	2870.7	2573.4	2561.0	2554.8	2530.1	2527.0	2514.6	2517.7	2523.9
42.5°	8237.4	5970.6	2728.3	2511.5	2520.8	2533.2	2486.7	2449.6	2465.0	2434.1	2434.1
45°	8506.9	6026.3	2601.3	2468.1	2458.8	2455.7	2418.6	2396.9	2384.5	2387.6	2415.5
47.5°	8931.1	6106.9	2505.3	2409.3	2415.5	2369.0	2359.7	2331.9	2344.3	2362.8	2365.9
50°	9231.5	6277.2	2431.0	2341.2	2362.8	2331.9	2276.1	2263.7	2263.7	2294.7	2288.5
52.5°	9442.1	6515.6	2359.7	2266.8	2276.1	2251.4	2232.8	2204.9	2186.3	2229.7	2251.4
55°	10086.2	6912.0	2341.2	2204.9	2201.8	2177.0	2143.0	2115.1	2105.8	2112.0	2155.4
57.5°	10024.3	6788.1	2282.3	2096.5	2090.3	2056.3	2022.2	2012.9	2009.8	2016.0	2028.4
60°	8138.3	5013.7	2037.7	1972.7	1963.4	1957.2	1923.1	1885.9	1867.4	1885.9	1870.5
62.5°	5385.3	3356.9	1796.1	1824.0	1830.2	1814.7	1759.0	1721.8	1728.0	1749.7	1715.6
65°	2644.7	1972.7	1628.9	1703.2	1709.4	1666.1	1613.4	1570.1	1548.4	1567.0	1551.5
67.5°	1511.2	1508.1	1492.6	1570.1	1567.0	1523.6	1440.0	1402.8	1365.7	1371.9	1362.6
70°	1282.1	1306.8	1337.8	1384.3	1381.2	1331.6	1232.5	1204.6	1152.0	1145.8	1130.3
72.5°	1009.6	1052.9	1121.0	1155.1	1127.2	1065.3	1000.3	953.8	907.4	879.5	888.8
75°	749.4	811.4	848.5	870.2	826.8	792.8	740.1	684.4	628.6	603.9	594.6
77.5°	545.0	563.6	597.7	613.2	585.3	551.2	520.3	464.5	411.9	377.8	368.5
80°	380.9	393.3	418.1	418.1	418.1	402.6	362.3	306.6	272.5	241.5	235.4
82.5°	266.3	278.7	303.5	291.1	288.0	269.4	244.6	201.3	164.1	142.5	136.3
85°	92.9	102.2	123.9	148.6	157.9	154.8	139.4	111.5	86.7	71.2	65.0
87.5°	21.7	21.7	24.8	21.7	21.7	24.8	21.7	21.7	21.7	15.5	12.4
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)