

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: P531884

Luminaire Tested: **GALN-SA7B-722-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-722-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24840 lumens
Efficiency: N/A
Efficacy: 86.9 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

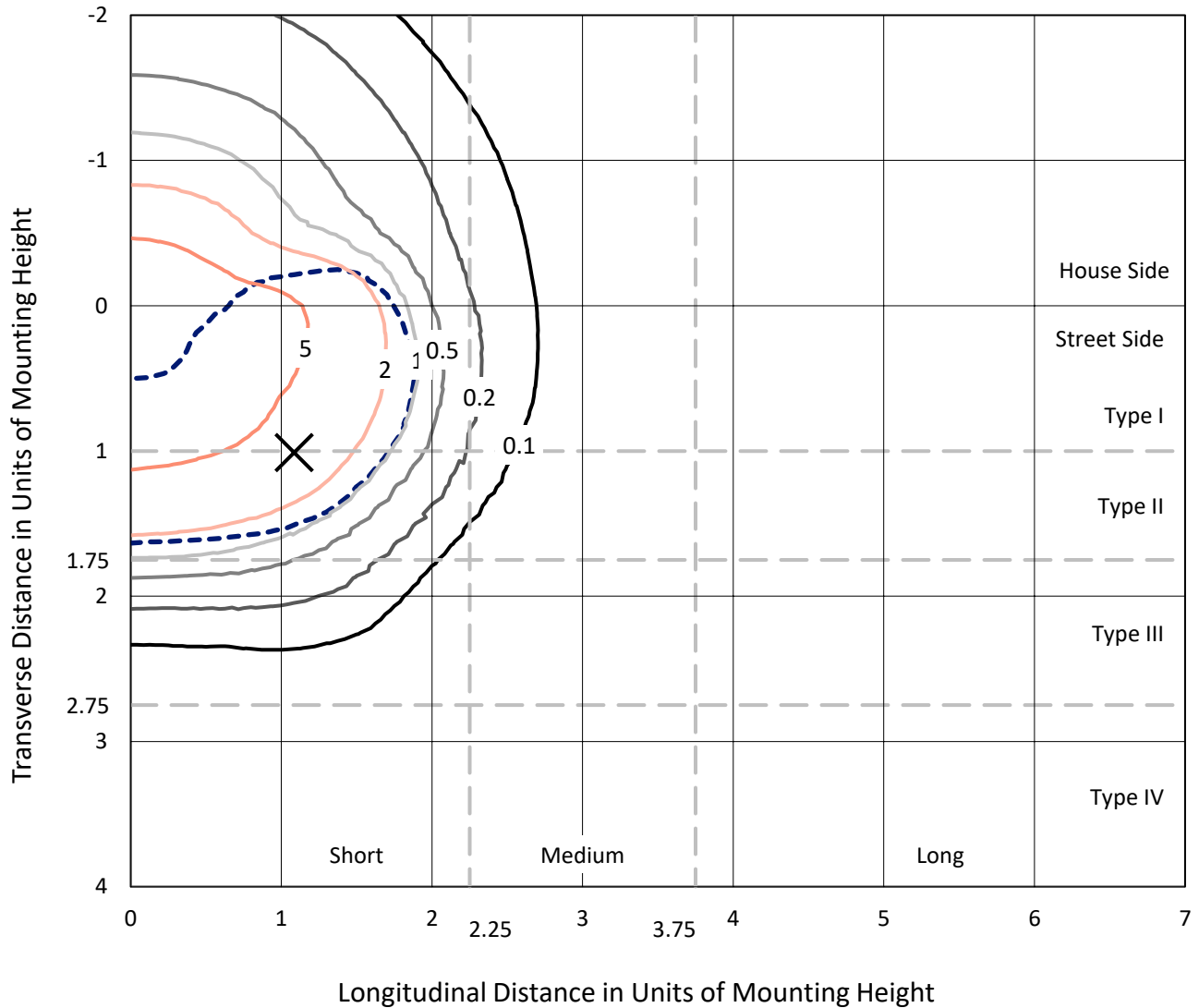
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

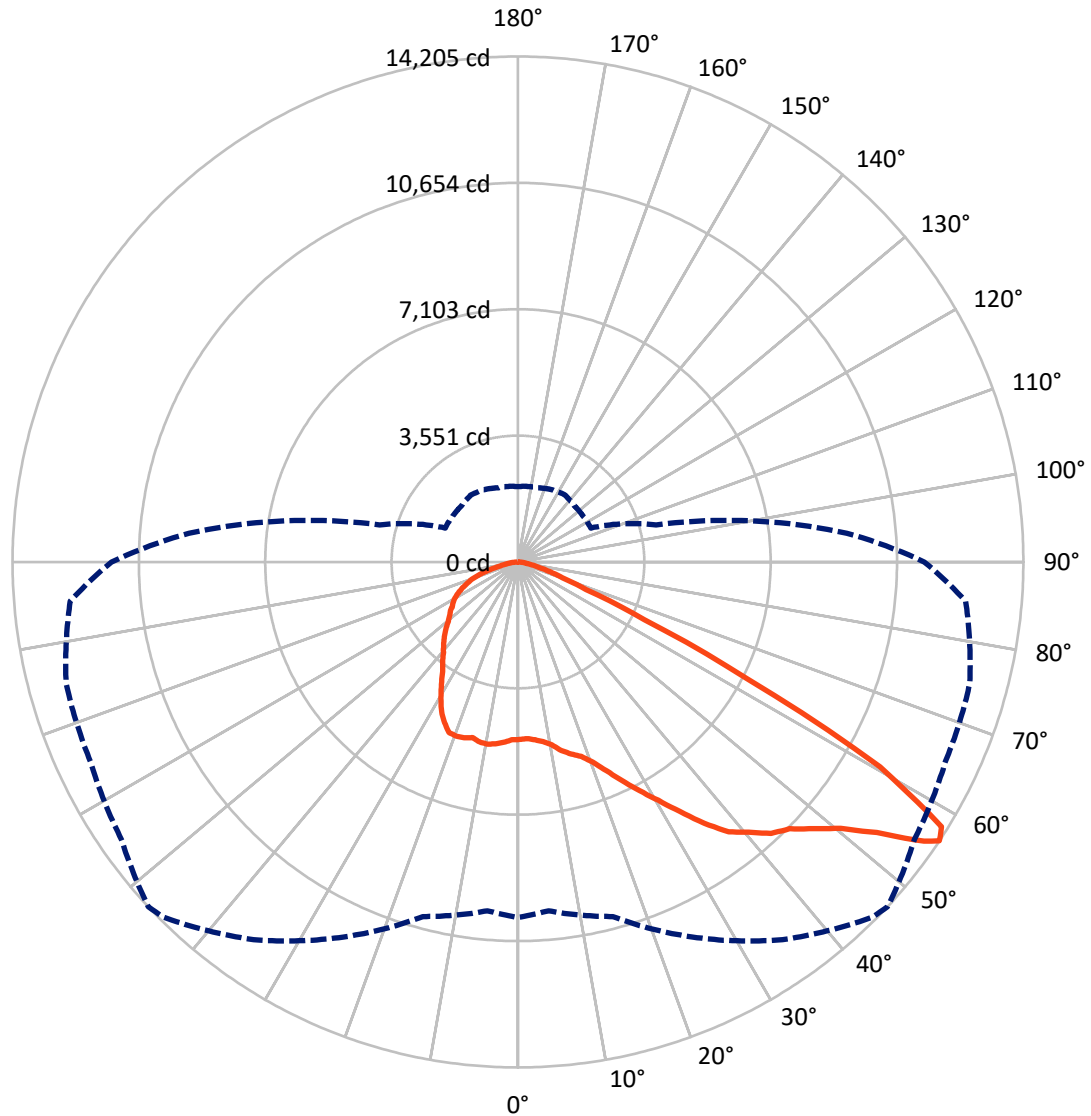
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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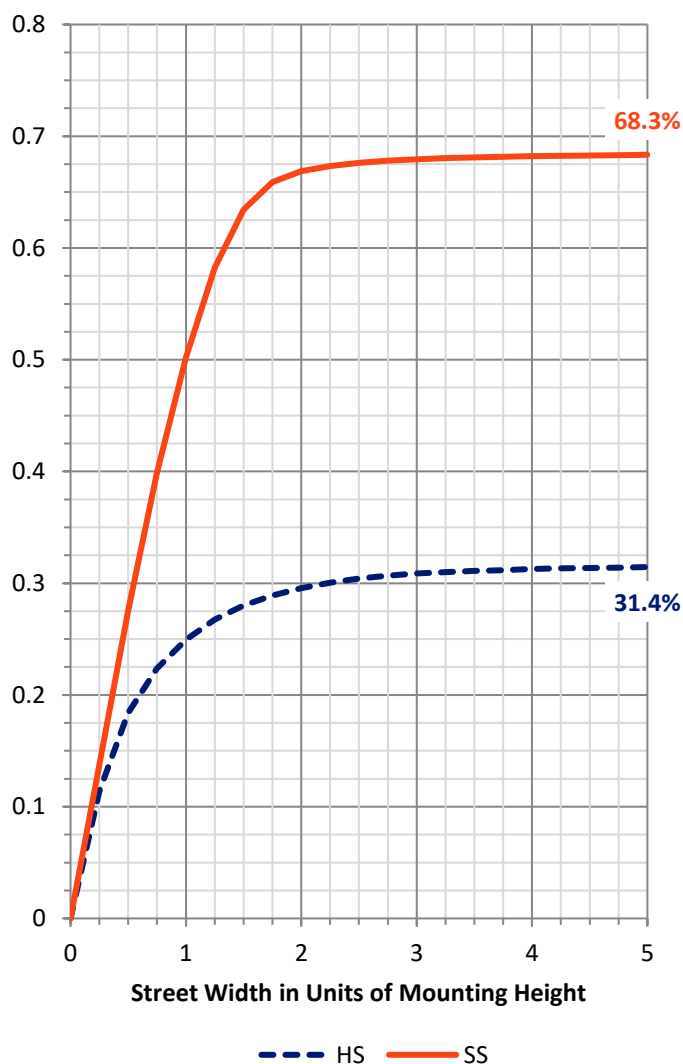
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7871.5	0.0	7871.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16968.5	0.0	16968.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	24840.0	0.0	24840.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.2	2.0
10°-20°	1533.6	6.2
20°-30°	2711.1	10.9
30°-40°	4071.9	16.4
40°-50°	5588.3	22.5
50°-60°	6657.8	26.8
60°-70°	2849.1	11.5
70°-80°	806.3	3.2
80°-90°	135.7	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°	24840.0	100.0
0°-180°	24840.0	100.0

Coefficient of Utilization



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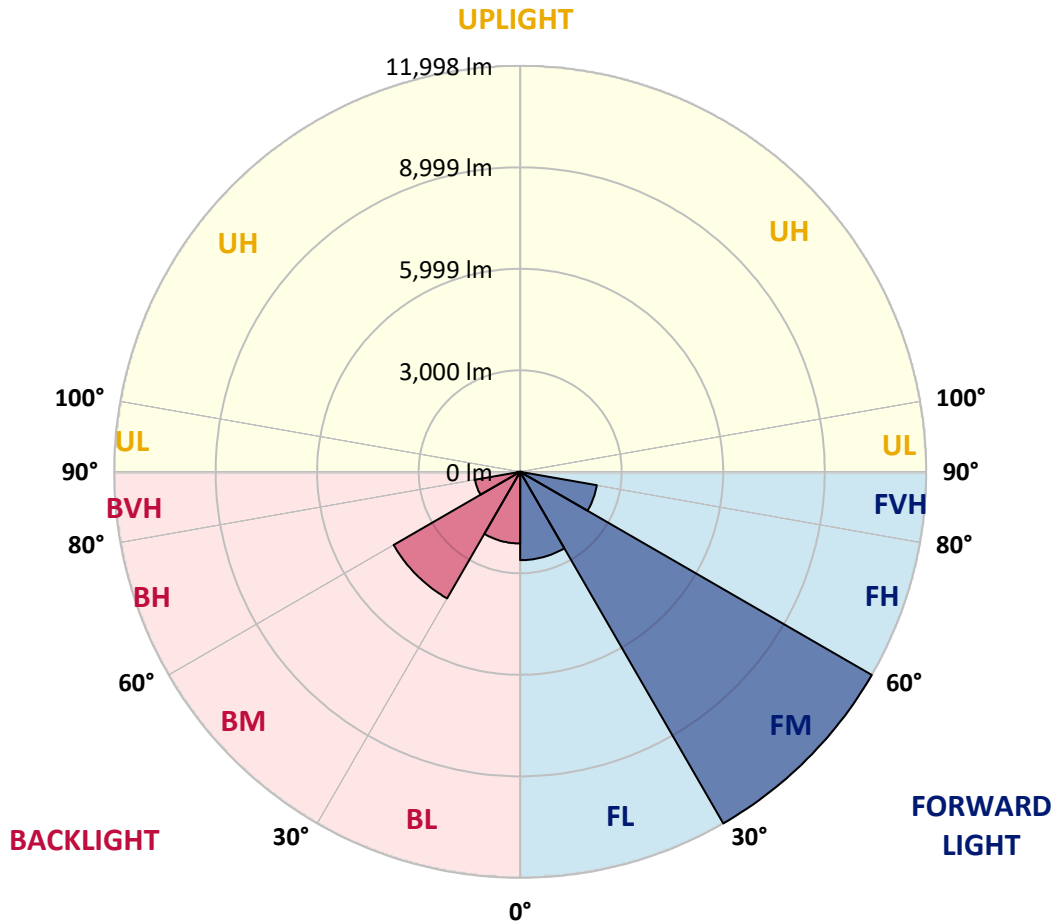
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2611.5	10.5			
FM (30°-60°)	11998.3	48.3			
FH (60°-80°)	2301.1	9.3			G2/5000
FVH (80°-90°)	57.6	0.2			G1/100
BL (0°-30°)	2119.3	8.5	B3/2500		
BM (30°-60°)	4319.7	17.4	B3/5000		
BH (60°-80°)	1354.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	78.1	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°	47°	55°	65°	75°	85°
0°	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6
2.5°	4970.6	4961.1	4954.8	5005.4	4986.4	4989.6	4970.6	4989.6	5002.3	4973.8	5014.9
5°	4961.1	4989.6	4964.3	4980.1	5021.3	5008.6	5021.3	5059.3	5049.8	5040.3	5027.6
7.5°	5049.8	5053.0	5072.0	5078.3	5091.0	5078.3	5097.3	5132.2	5122.7	5068.8	5075.1
10°	5176.5	5182.8	5186.0	5220.9	5243.0	5246.2	5224.0	5192.4	5189.2	5262.0	5211.4
12.5°	5322.2	5306.4	5344.4	5357.1	5382.4	5410.9	5439.5	5372.9	5414.1	5417.3	5357.1
15°	5534.5	5550.3	5506.0	5506.0	5515.5	5518.7	5597.9	5566.2	5559.8	5525.0	5550.3
17.5°	5851.3	5743.6	5740.4	5696.1	5689.7	5715.1	5743.6	5768.9	5854.5	5784.8	5648.5
20°	6082.6	6107.9	6016.0	5962.2	5971.7	6028.7	6000.2	6114.2	6174.4	6060.4	5927.3
22.5°	6491.2	6405.7	6427.9	6307.5	6317.0	6377.2	6374.0	6491.2	6526.1	6345.5	6152.3
25°	6766.8	6744.7	6763.7	6668.6	6681.3	6728.8	6804.9	6998.1	6941.1	6741.5	6294.8
27.5°	7169.2	7124.8	7109.0	7074.1	7061.5	7188.2	7276.9	7482.8	7441.6	7150.2	6548.3
30°	7581.0	7552.5	7568.4	7425.8	7476.5	7745.8	7771.1	8053.1	8034.1	7520.8	6830.2
32.5°	7866.1	7882.0	7910.5	7831.3	8056.2	8271.7	8357.2	8677.2	8693.0	8157.6	7375.1
35°	8325.5	8271.7	8287.5	8379.4	8483.9	8876.7	9016.1	9228.4	9361.4	8826.1	7897.8
37.5°	8613.8	8670.8	8604.3	8750.0	9022.5	9494.5	9621.2	9839.8	9979.2	9485.0	8610.6
40°	9063.7	8971.8	9019.3	9123.8	9402.6	10017.2	9982.4	10207.3	10251.7	10045.7	9275.9
42.5°	9548.4	9504.0	9437.5	9675.1	9909.5	10356.2	10425.9	10321.3	10546.3	10593.8	10226.3
45°	10128.1	10182.0	10191.5	10197.8	10403.7	10793.4	10698.3	10606.5	10866.2	11211.6	10815.6
47.5°	10666.7	10495.6	10619.1	10790.2	11081.7	11084.8	11195.7	10977.1	11252.7	11560.0	11347.8
50°	10847.2	10764.9	10929.6	11252.7	11702.6	11750.1	11762.8	11452.3	11594.9	11838.8	11531.5
52.5°	10777.5	10749.0	11170.4	11670.9	12329.9	12570.6	12634.0	12250.7	12329.9	12219.0	11937.0
55°	10444.9	10530.4	10954.9	11975.0	12985.6	13730.1	13850.5	13365.8	12862.1	12947.6	12637.2
56°	9988.7	9839.8	10315.0	11629.7	12957.1	14107.1	14205.3	13600.2	13258.1	13147.2	12630.8
57.5°	8474.4	8281.2	8905.3	10463.9	12238.0	13964.5	14037.4	13698.4	13191.6	12966.6	11708.9
60°	4961.1	5056.1	5848.1	7216.7	9440.6	11449.2	11693.1	11940.2	11601.2	10593.8	8715.2
62.5°	2395.0	2334.8	2901.9	4137.4	5753.1	7308.6	7235.7	7929.5	8309.7	7527.2	5502.8
65°	1254.5	1248.2	1584.0	2258.8	3161.7	3839.6	3906.1	4280.0	4802.7	3877.6	2794.2
67.5°	921.9	947.2	1115.1	1587.2	2033.9	2075.0	2065.5	2252.4	2303.1	1948.3	1717.1
70°	722.3	735.0	858.5	1207.0	1514.3	1355.9	1327.4	1349.6	1498.5	1561.8	1485.8
72.5°	522.7	535.4	639.9	814.2	947.2	925.1	944.1	1067.6	1251.4	1317.9	1238.7
75°	348.5	358.0	415.0	497.4	560.7	605.1	639.9	782.5	953.6	991.6	953.6
77.5°	240.8	250.3	288.3	351.6	358.0	386.5	399.2	465.7	570.2	617.8	592.4
80°	136.2	136.2	155.2	180.6	221.8	259.8	266.1	320.0	367.5	399.2	405.5
82.5°	63.4	66.5	82.4	110.9	145.7	180.6	186.9	221.8	256.6	288.3	297.8
85°	31.7	34.8	47.5	66.5	88.7	107.7	104.5	107.7	114.0	107.7	110.9
87.5°	9.5	9.5	12.7	15.8	12.7	15.8	15.8	19.0	22.2	25.3	28.5
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°	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6	4989.6
2.5°	5018.1	5027.6	4964.3	5024.4	5002.3	4999.1	5043.5	5037.1	5053.0	5046.6	5008.6
5°	5021.3	4999.1	5065.6	5005.4	5034.0	5094.1	5053.0	5148.0	5100.5	5132.2	5062.5
7.5°	5119.5	5125.8	5113.2	5138.5	5125.8	5154.3	5132.2	5154.3	5116.3	5119.5	5182.8
10°	5205.0	5186.0	5208.2	5176.5	5198.7	5189.2	5138.5	5122.7	5135.3	5119.5	5160.7
12.5°	5363.4	5328.6	5312.7	5274.7	5249.4	5154.3	5075.1	5030.8	5091.0	5100.5	5081.5
15°	5525.0	5528.2	5455.3	5369.8	5211.4	5068.8	5087.8	5103.6	5103.6	5129.0	5081.5
17.5°	5626.4	5626.4	5559.8	5388.8	5227.2	5144.8	5125.8	5075.1	5030.8	5024.4	5021.3
20°	5803.8	5749.9	5597.9	5385.6	5220.9	5182.8	5040.3	4919.9	4828.0	4796.4	4793.2
22.5°	6006.5	5870.3	5658.0	5391.9	5211.4	5157.5	4891.4	4710.8	4546.1	4476.4	4485.9
25°	6193.4	5974.8	5692.9	5363.4	5176.5	4916.7	4618.9	4368.7	4197.6	4140.6	4112.1
27.5°	6323.3	6085.7	5692.9	5388.8	5046.6	4647.5	4343.3	4023.4	3874.5	3836.4	3842.8
30°	6497.6	6225.1	5791.1	5334.9	4786.8	4299.0	3934.7	3725.6	3636.9	3605.2	3627.4
32.5°	6906.2	6589.4	5927.3	5205.0	4479.6	3950.5	3655.9	3538.7	3408.8	3345.4	3323.2
35°	7349.8	6934.8	6060.4	4986.4	4134.2	3633.7	3450.0	3342.2	3187.0	3117.3	3130.0
37.5°	7977.0	7378.3	6069.9	4625.3	3760.4	3456.3	3288.4	3120.5	2993.8	2886.0	2854.4
40°	8822.9	7983.4	6047.7	4245.1	3459.5	3247.2	3123.6	2914.6	2772.0	2696.0	2711.8
42.5°	9567.4	8693.0	5955.8	3814.3	3187.0	3104.6	2965.2	2759.3	2619.9	2540.7	2534.4
45°	10194.6	9215.7	5781.6	3446.8	2958.9	2946.2	2784.7	2626.3	2515.4	2442.5	2474.2
47.5°	10774.4	9637.1	5518.7	3079.3	2749.8	2775.2	2619.9	2521.7	2452.0	2385.5	2382.3
50°	10983.5	9630.7	5287.4	2775.2	2581.9	2569.2	2562.9	2458.4	2385.5	2328.5	2353.8
52.5°	11331.9	9738.4	5037.1	2566.1	2429.9	2433.0	2455.2	2379.2	2296.8	2262.0	2293.6
55°	11832.5	9754.3	4485.9	2322.1	2303.1	2325.3	2325.3	2274.6	2204.9	2176.4	2160.6
56°	11423.8	9282.2	4023.4	2258.8	2239.8	2239.8	2300.0	2242.9	2157.4	2135.2	2116.2
57.5°	10536.8	8132.3	3367.6	2182.8	2154.2	2198.6	2230.3	2170.1	2090.9	2059.2	2078.2
60°	7267.4	5502.8	2531.2	2018.0	2018.0	2090.9	2116.2	2027.5	1992.7	1989.5	1964.2
62.5°	4242.0	3206.0	1980.0	1869.1	1875.5	1935.6	1954.7	1904.0	1859.6	1913.5	1938.8
65°	2249.3	1913.5	1698.0	1710.7	1713.9	1761.4	1843.8	1840.6	1837.4	1853.3	1856.4
67.5°	1628.4	1590.3	1542.8	1530.1	1536.5	1571.3	1653.7	1717.1	1713.9	1675.9	1647.4
70°	1450.9	1397.1	1368.6	1371.7	1346.4	1387.6	1454.1	1495.3	1422.4	1378.1	1359.1
72.5°	1207.0	1191.2	1172.2	1175.3	1124.6	1115.1	1039.1	1039.1	1020.1	1007.4	1029.6
75°	921.9	915.6	925.1	909.2	855.4	798.3	754.0	712.8	649.4	624.1	611.4
77.5°	582.9	601.9	624.1	589.2	567.1	525.9	481.5	440.4	389.7	361.2	361.2
80°	396.0	411.8	427.7	421.3	396.0	358.0	323.1	278.8	243.9	221.8	218.6
82.5°	301.0	313.6	335.8	310.5	285.1	253.4	224.9	193.2	161.6	136.2	136.2
85°	107.7	123.6	136.2	148.9	158.4	161.6	139.4	114.0	91.9	72.9	69.7
87.5°	28.5	31.7	34.8	31.7	31.7	31.7	34.8	31.7	28.5	22.2	22.2
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)