

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: P531702

Luminaire Tested: **GALN-SA7A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531702
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-SA7A-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 24733 lumens
Efficiency: N/A
Efficacy: 115.0 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

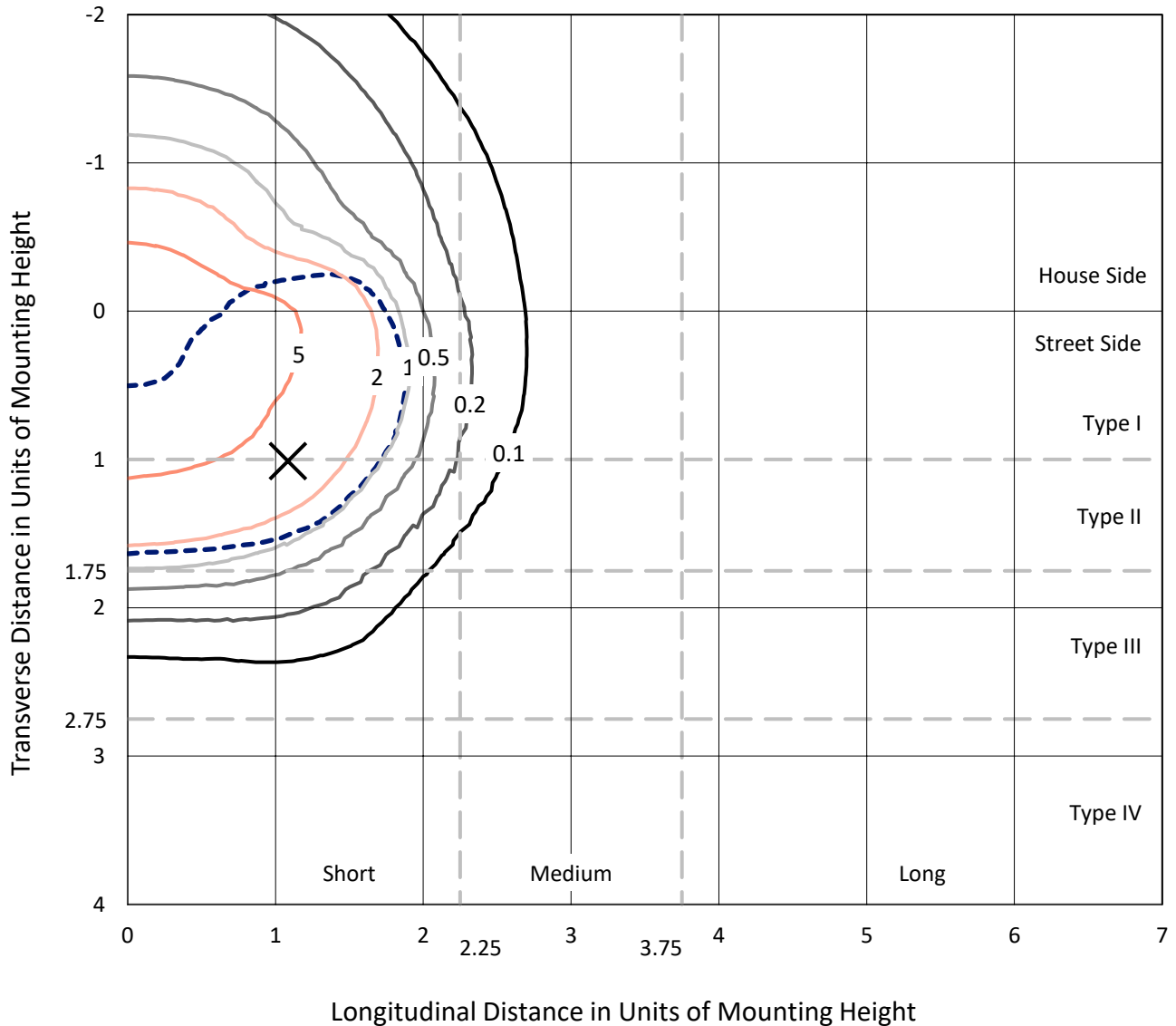
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

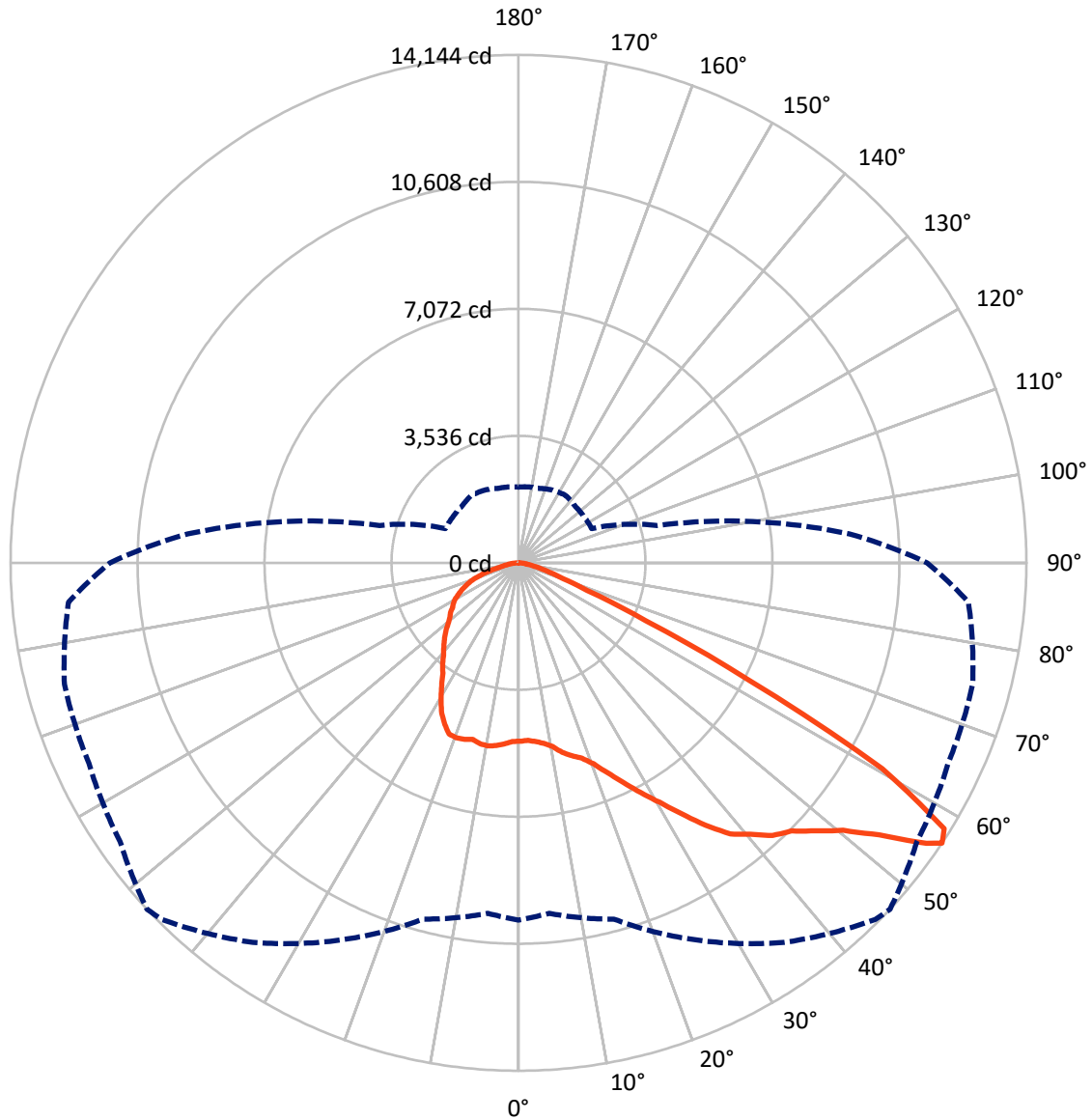
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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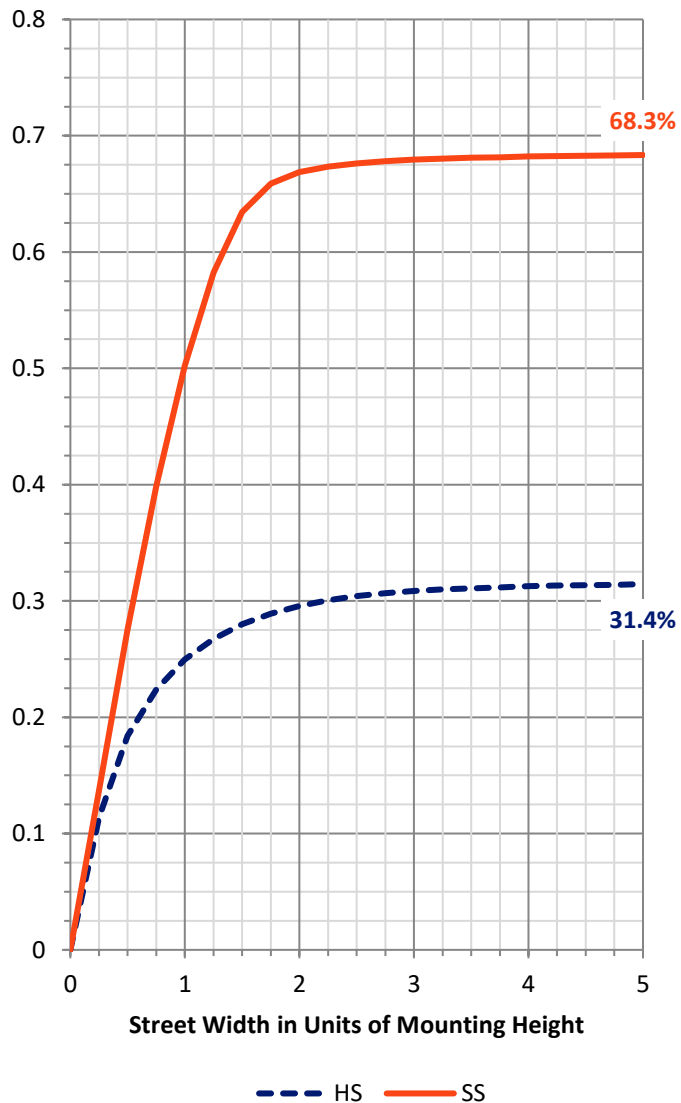
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7837.6	0.0	7837.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	16895.4	0.0	16895.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	24733.0	0.0	24733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.1	2.0
10°-20°	1527.0	6.2
20°-30°	2699.4	10.9
30°-40°	4054.4	16.4
40°-50°	5564.3	22.5
50°-60°	6629.1	26.8
60°-70°	2836.8	11.5
70°-80°	802.8	3.2
80°-90°	135.1	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°	24733.0	100.0
0°-180°	24733.0	100.0

Coefficient of Utilization

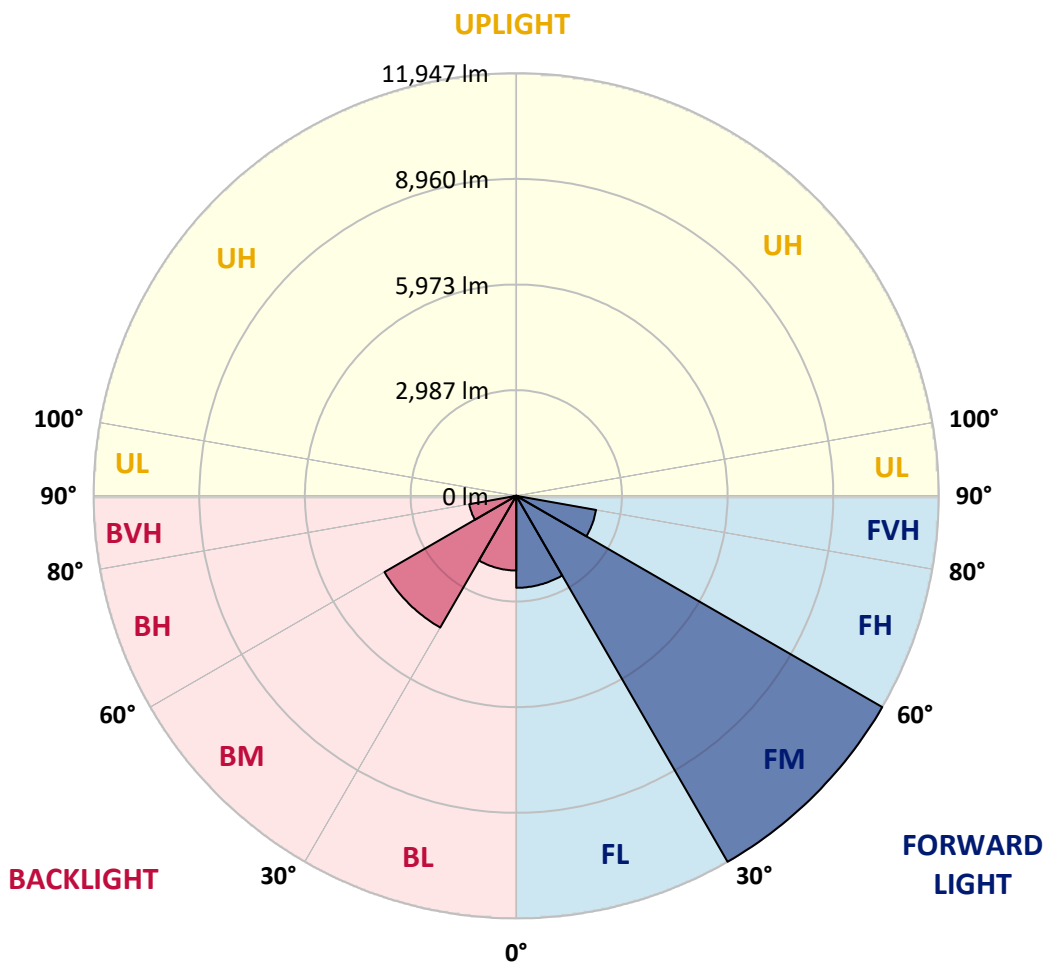


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2600.3	10.5			
FM (30°-60°)	11946.6	48.3			
FH (60°-80°)	2291.2	9.3			G2/5000
FVH (80°-90°)	57.3	0.2			G1/100
BL (0°-30°)	2110.2	8.5	B3/2500		
BM (30°-60°)	4301.1	17.4	B3/5000		
BH (60°-80°)	1348.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	77.8	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°	47°	55°	65°	75°	85°
0°	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1
2.5°	4949.2	4939.7	4933.4	4983.9	4965.0	4968.1	4949.2	4968.1	4980.7	4952.3	4993.3
5°	4939.7	4968.1	4942.9	4958.6	4999.7	4987.0	4999.7	5037.5	5028.0	5018.6	5006.0
7.5°	5028.0	5031.2	5050.1	5056.4	5069.0	5056.4	5075.4	5110.1	5100.6	5047.0	5053.3
10°	5154.2	5160.5	5163.7	5198.4	5220.5	5223.6	5201.5	5170.0	5166.8	5239.4	5188.9
12.5°	5299.3	5283.5	5321.4	5334.0	5359.2	5387.6	5416.0	5349.8	5390.8	5393.9	5334.0
15°	5510.7	5526.4	5482.3	5482.3	5491.7	5494.9	5573.7	5542.2	5535.9	5501.2	5526.4
17.5°	5826.1	5718.8	5715.7	5671.5	5665.2	5690.5	5718.8	5744.1	5829.2	5759.9	5624.2
20°	6056.4	6081.6	5990.1	5936.5	5946.0	6002.7	5974.3	6087.9	6147.8	6034.3	5901.8
22.5°	6463.3	6378.1	6400.2	6280.3	6289.8	6349.7	6346.6	6463.3	6498.0	6318.2	6125.8
25°	6737.7	6715.6	6734.5	6639.9	6652.5	6699.8	6775.6	6968.0	6911.2	6712.5	6267.7
27.5°	7138.3	7094.1	7078.4	7043.7	7031.1	7157.2	7245.6	7450.6	7409.6	7119.4	6520.1
30°	7548.4	7520.0	7535.8	7393.8	7444.3	7712.4	7737.6	8018.4	7999.4	7488.4	6800.8
32.5°	7832.3	7848.0	7876.4	7797.6	8021.5	8236.0	8321.2	8639.8	8655.5	8122.5	7343.3
35°	8289.6	8236.0	8251.8	8343.3	8447.4	8838.5	8977.3	9188.6	9321.1	8788.0	7863.8
37.5°	8576.7	8633.5	8567.2	8712.3	8983.6	9453.6	9579.8	9797.4	9936.2	9444.1	8573.5
40°	9024.6	8933.1	8980.4	9084.5	9362.1	9974.1	9939.4	10163.3	10207.5	10002.5	9235.9
42.5°	9507.2	9463.1	9396.8	9633.4	9866.8	10311.6	10381.0	10276.9	10500.8	10548.2	10182.3
45°	10084.5	10138.1	10147.6	10153.9	10358.9	10746.9	10652.3	10560.8	10819.4	11163.3	10769.0
47.5°	10620.7	10450.4	10573.4	10743.7	11033.9	11037.1	11147.5	10929.8	11204.3	11510.2	11298.9
50°	10800.5	10718.5	10882.5	11204.3	11652.2	11699.5	11712.1	11403.0	11544.9	11787.8	11481.9
52.5°	10731.1	10702.7	11122.3	11620.6	12276.7	12516.5	12579.6	12197.9	12276.7	12166.3	11885.6
55°	10399.9	10485.1	10907.8	11923.5	12929.7	13671.0	13790.8	13308.2	12806.7	12891.8	12582.7
56°	9945.7	9797.4	10270.6	11579.6	12901.3	14046.3	14144.1	13541.6	13201.0	13090.6	12576.4
57.5°	8437.9	8245.5	8866.9	10418.8	12185.3	13904.4	13976.9	13639.4	13134.7	12910.8	11658.5
60°	4939.7	5034.3	5822.9	7185.6	9400.0	11399.8	11642.7	11888.8	11551.2	10548.2	8677.6
62.5°	2384.7	2324.8	2889.4	4119.6	5728.3	7277.1	7204.5	7895.3	8273.9	7494.7	5479.1
65°	1249.1	1242.8	1577.2	2249.1	3148.0	3823.1	3889.3	4261.5	4782.0	3860.9	2782.1
67.5°	917.9	943.2	1110.3	1580.3	2025.1	2066.1	2056.6	2242.7	2293.2	1939.9	1709.7
70°	719.2	731.8	854.8	1201.8	1507.8	1350.1	1321.7	1343.8	1492.0	1555.1	1479.4
72.5°	520.5	533.1	637.2	810.7	943.2	921.1	940.0	1063.0	1246.0	1312.2	1233.4
75°	347.0	356.4	413.2	495.2	558.3	602.5	637.2	779.1	949.5	987.3	949.5
77.5°	239.7	249.2	287.0	350.1	356.4	384.8	397.4	463.7	567.8	615.1	589.9
80°	135.6	135.6	154.6	179.8	220.8	258.7	265.0	318.6	365.9	397.4	403.8
82.5°	63.1	66.2	82.0	110.4	145.1	179.8	186.1	220.8	255.5	287.0	296.5
85°	31.5	34.7	47.3	66.2	88.3	107.2	104.1	107.2	113.6	107.2	110.4
87.5°	9.5	9.5	12.6	15.8	12.6	15.8	15.8	18.9	22.1	25.2	28.4
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°	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1	4968.1
2.5°	4996.5	5006.0	4942.9	5002.8	4980.7	4977.6	5021.7	5015.4	5031.2	5024.9	4987.0
5°	4999.7	4977.6	5043.8	4983.9	5012.3	5072.2	5031.2	5125.8	5078.5	5110.1	5040.7
7.5°	5097.4	5103.7	5091.1	5116.4	5103.7	5132.1	5110.1	5132.1	5094.3	5097.4	5160.5
10°	5182.6	5163.7	5185.8	5154.2	5176.3	5166.8	5116.4	5100.6	5113.2	5097.4	5138.4
12.5°	5340.3	5305.6	5289.9	5252.0	5226.8	5132.1	5053.3	5009.1	5069.0	5078.5	5059.6
15°	5501.2	5504.3	5431.8	5346.6	5188.9	5047.0	5065.9	5081.7	5081.7	5106.9	5059.6
17.5°	5602.1	5602.1	5535.9	5365.6	5204.7	5122.7	5103.7	5053.3	5009.1	5002.8	4999.7
20°	5778.8	5725.2	5573.7	5362.4	5198.4	5160.5	5018.6	4898.7	4807.2	4775.7	4772.5
22.5°	5980.7	5845.0	5633.7	5368.7	5188.9	5135.3	4870.3	4690.5	4526.5	4457.1	4466.6
25°	6166.8	5949.1	5668.4	5340.3	5154.2	4895.6	4599.0	4349.9	4179.5	4122.7	4094.4
27.5°	6296.1	6059.5	5668.4	5365.6	5024.9	4627.4	4324.6	4006.0	3857.8	3819.9	3826.2
30°	6469.6	6198.3	5766.2	5311.9	4766.2	4280.5	3917.7	3709.5	3621.2	3589.7	3611.7
32.5°	6876.5	6561.1	5901.8	5182.6	4460.3	3933.5	3640.1	3523.4	3394.1	3331.0	3308.9
35°	7318.1	6904.9	6034.3	4965.0	4116.4	3618.0	3435.1	3327.8	3173.3	3103.9	3116.5
37.5°	7942.7	7346.5	6043.7	4605.4	3744.2	3441.4	3274.2	3107.0	2980.9	2873.6	2842.1
40°	8784.9	7949.0	6021.7	4226.8	3444.6	3233.2	3110.2	2902.0	2760.1	2684.4	2700.1
42.5°	9526.2	8655.5	5930.2	3797.8	3173.3	3091.3	2952.5	2747.4	2608.7	2529.8	2523.5
45°	10150.7	9176.0	5756.7	3431.9	2946.2	2933.5	2772.7	2615.0	2504.6	2432.0	2463.6
47.5°	10728.0	9595.5	5494.9	3066.0	2738.0	2763.2	2608.7	2510.9	2441.5	2375.2	2372.1
50°	10936.1	9589.2	5264.6	2763.2	2570.8	2558.2	2551.9	2447.8	2375.2	2318.5	2343.7
52.5°	11283.1	9696.5	5015.4	2555.0	2419.4	2422.5	2444.6	2368.9	2286.9	2252.2	2283.8
55°	11781.5	9712.3	4466.6	2312.1	2293.2	2315.3	2315.3	2264.8	2195.4	2167.0	2151.3
56°	11374.6	9242.3	4006.0	2249.1	2230.1	2230.1	2290.1	2233.3	2148.1	2126.0	2107.1
57.5°	10491.4	8097.2	3353.1	2173.4	2145.0	2189.1	2220.7	2160.7	2081.9	2050.3	2069.3
60°	7236.1	5479.1	2520.3	2009.3	2009.3	2081.9	2107.1	2018.8	1984.1	1980.9	1955.7
62.5°	4223.7	3192.2	1971.5	1861.1	1867.4	1927.3	1946.2	1895.8	1851.6	1905.2	1930.5
65°	2239.6	1905.2	1690.7	1703.4	1706.5	1753.8	1835.8	1832.7	1829.5	1845.3	1848.5
67.5°	1621.3	1583.5	1536.2	1523.6	1529.9	1564.6	1646.6	1709.7	1706.5	1668.7	1640.3
70°	1444.7	1391.1	1362.7	1365.8	1340.6	1381.6	1447.8	1488.9	1416.3	1372.1	1353.2
72.5°	1201.8	1186.0	1167.1	1170.3	1119.8	1110.3	1034.6	1034.6	1015.7	1003.1	1025.2
75°	917.9	911.6	921.1	905.3	851.7	794.9	750.7	709.7	646.6	621.4	608.8
77.5°	580.4	599.3	621.4	586.7	564.6	523.6	479.5	438.5	388.0	359.6	359.6
80°	394.3	410.1	425.8	419.5	394.3	356.4	321.7	277.6	242.9	220.8	217.7
82.5°	299.7	312.3	334.4	309.1	283.9	252.3	224.0	192.4	160.9	135.6	135.6
85°	107.2	123.0	135.6	148.3	157.7	160.9	138.8	113.6	91.5	72.6	69.4
87.5°	28.4	31.5	34.7	31.5	31.5	31.5	34.7	31.5	28.4	22.1	22.1
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)