

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: P534040

Luminaire Tested: **GALN-SA9C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51006 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

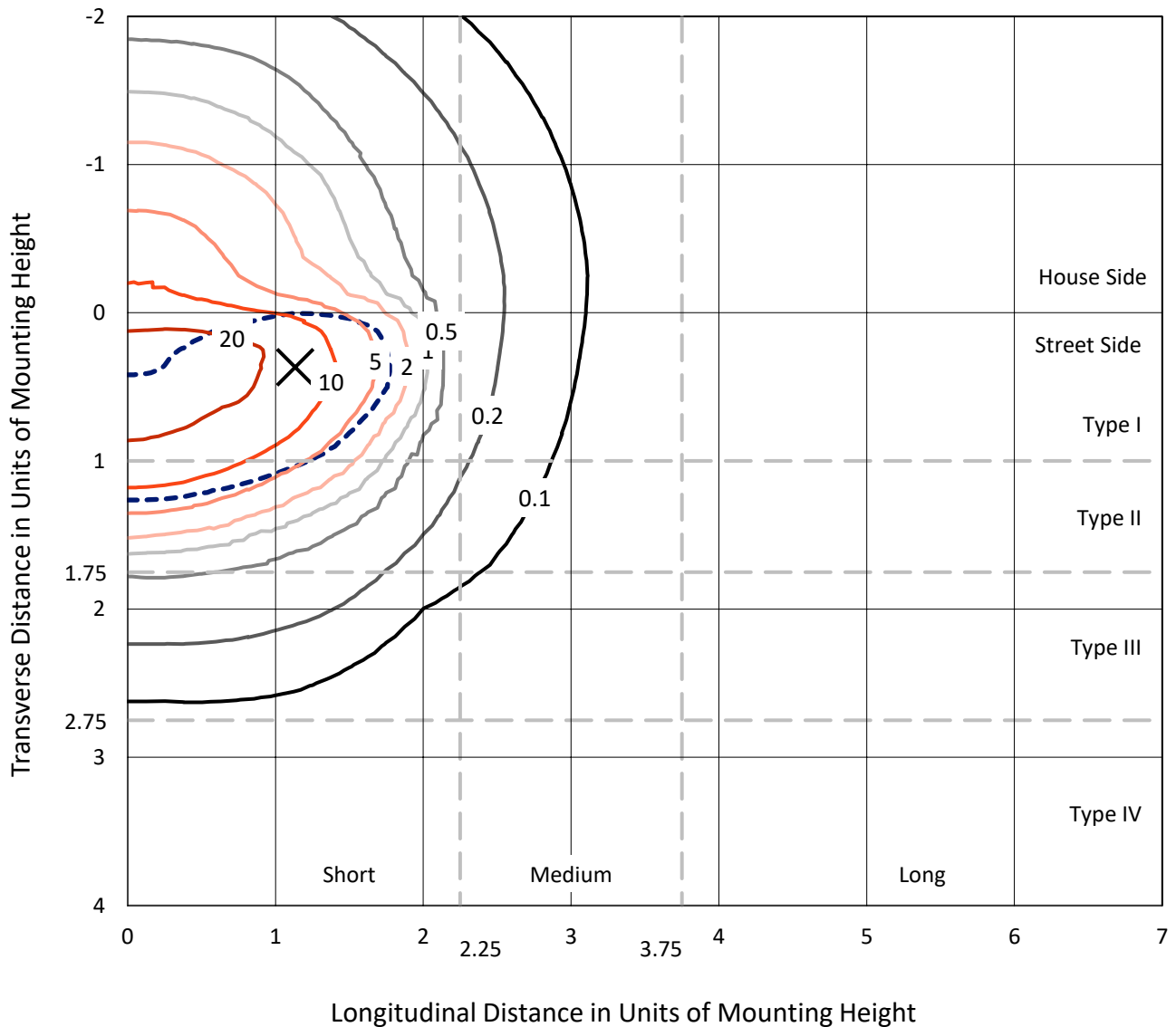
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

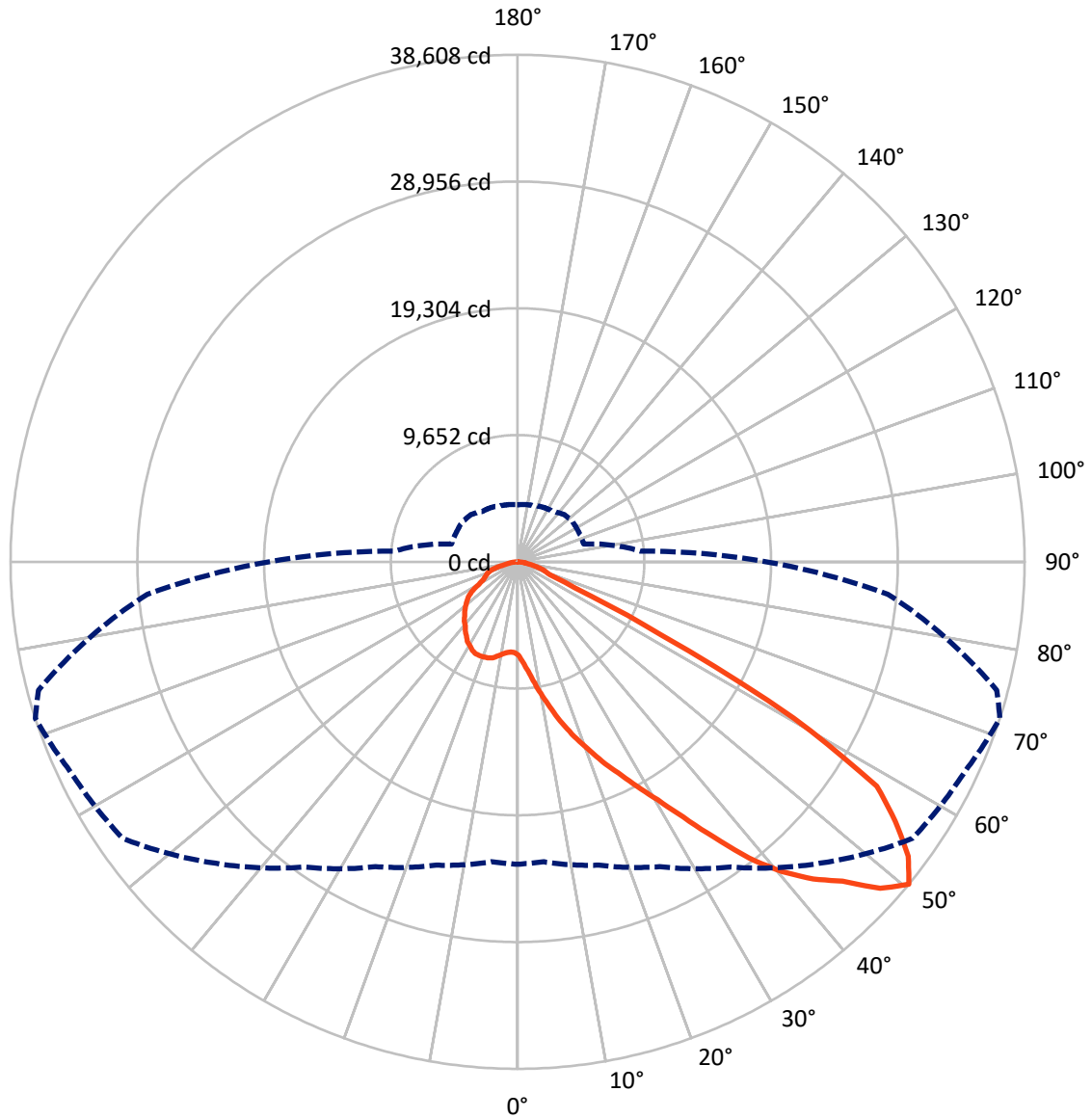
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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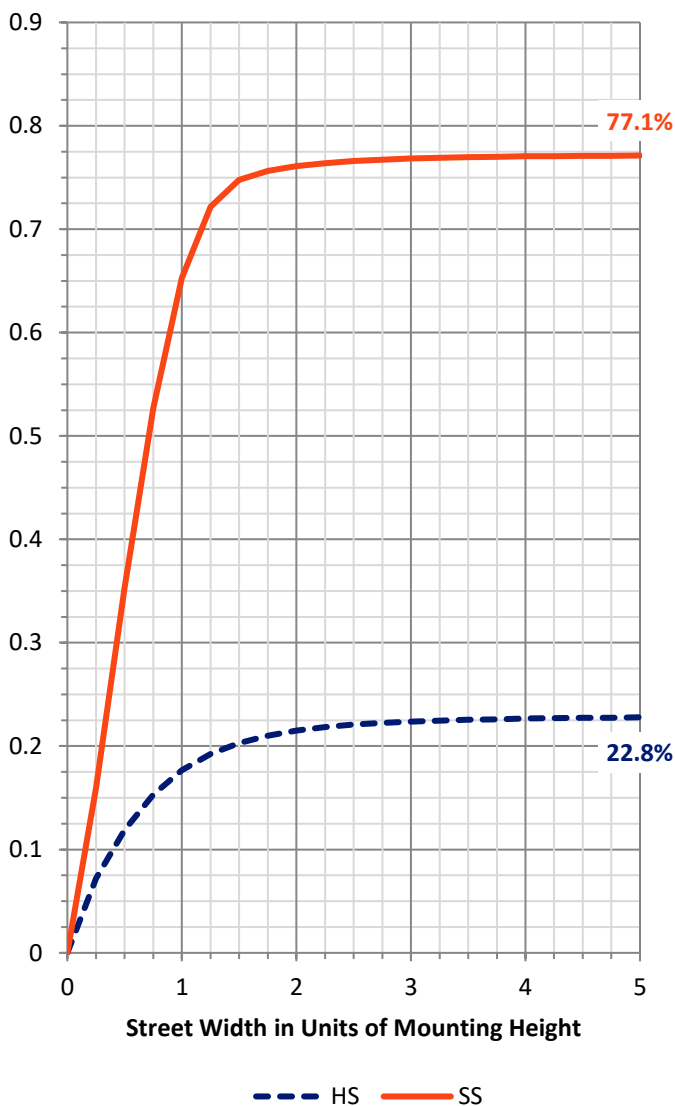
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11685.8	0.0	11685.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39320.2	0.0	39320.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	51006.0	0.0	51006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.2	1.6
10°-20°	3122.2	6.1
20°-30°	6053.8	11.9
30°-40°	10029.1	19.7
40°-50°	14032.8	27.5
50°-60°	11838.5	23.2
60°-70°	3608.4	7.1
70°-80°	1265.9	2.5
80°-90°	220.1	0.4
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°	51006.0	100.0
0°-180°	51006.0	100.0

Coefficient of Utilization



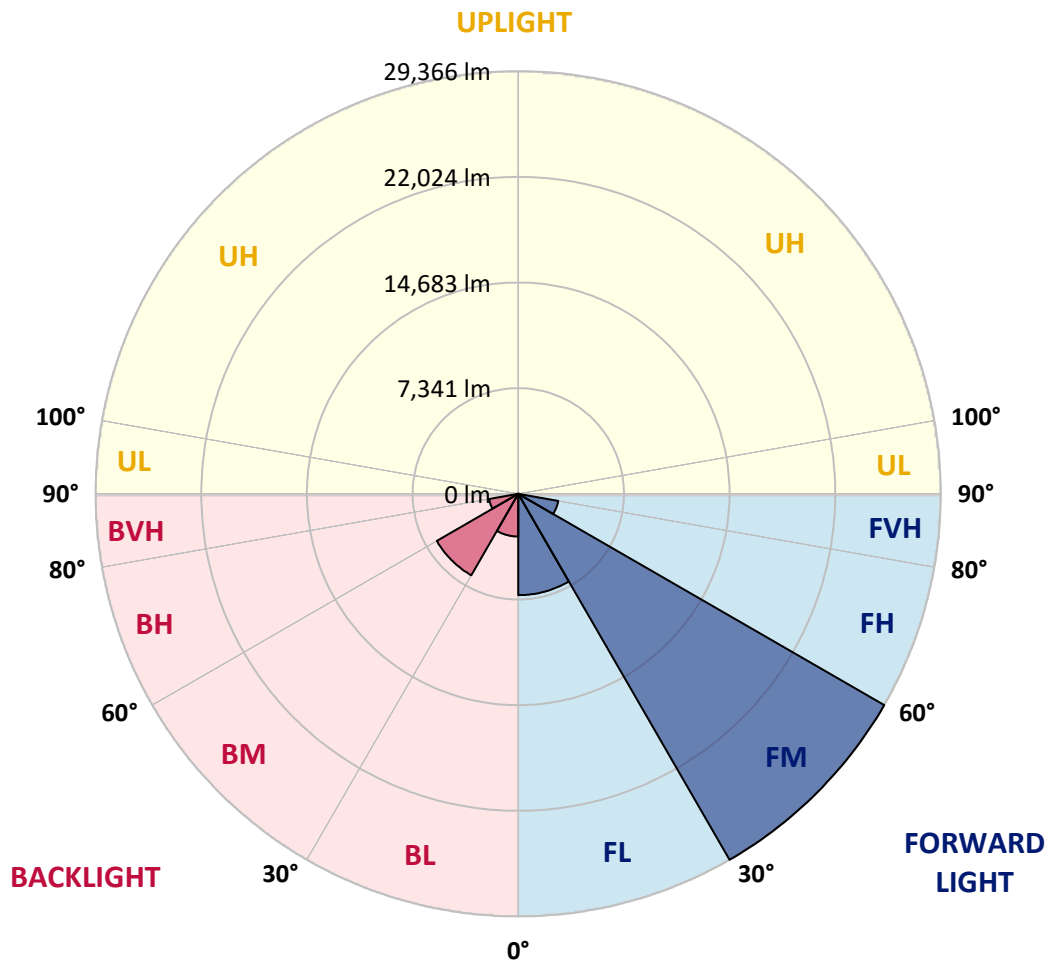
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7040.7	13.8			
FM (30°-60°)	29365.5	57.6			
FH (60°-80°)	2815.5	5.5			G2/5000
FVH (80°-90°)	98.6	0.2			G1/100
BL (0°-30°)	2970.6	5.8	B4/5000		
BM (30°-60°)	6534.9	12.8	B4/8500		
BH (60°-80°)	2058.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	121.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5
2.5°	9132.8	9076.0	8905.6	8848.8	8646.8	8280.7	8154.5	7782.1	7624.3	7479.2	7308.8
5°	11550.1	11285.0	11266.1	10944.2	10477.1	10205.7	9397.9	8855.1	8356.5	8104.0	7637.0
7.5°	13090.1	13096.4	13096.4	12831.3	12459.0	11771.0	11045.2	10066.9	9315.8	8943.4	8148.2
10°	14554.4	14428.2	14358.7	14333.5	14081.0	13412.0	12635.7	11423.9	10395.1	9959.6	8533.2
12.5°	15589.5	15482.2	15640.0	15557.9	15374.9	14939.4	14207.3	12825.0	11537.5	10950.5	9151.7
15°	16081.8	16157.5	16283.7	16511.0	16428.9	16264.8	15456.9	14264.1	12768.2	12105.5	9700.8
17.5°	16839.2	16630.9	16782.4	17066.4	17293.6	17217.9	16757.1	15305.5	13986.3	13172.2	10439.3
20°	17369.3	17249.4	17325.1	17653.3	17823.8	18252.9	18013.1	16668.7	15154.0	14295.6	11310.3
22.5°	18884.1	18707.4	18461.2	18511.7	18574.8	18877.8	18934.6	18164.6	16511.0	15602.1	12137.1
25°	20752.3	20588.2	20297.9	20001.2	19818.2	19761.4	19957.1	19338.5	17811.1	16870.7	13027.0
27.5°	22809.9	22532.2	22349.1	21736.9	21244.6	21168.9	21074.2	20739.7	19351.1	18335.0	14030.5
30°	24810.6	24589.7	24343.6	23365.3	22854.0	22772.0	22304.9	22399.6	21023.7	19893.9	15166.6
32.5°	26325.4	26344.3	25782.6	25044.1	24564.5	24129.0	23958.6	24230.0	23169.6	22260.8	16435.2
35°	27549.8	27606.6	27070.1	26401.1	25883.6	26186.5	26110.8	26237.0	25732.1	24621.3	17912.1
37.5°	28742.7	28458.7	27884.3	27562.4	27291.1	27789.7	28433.4	28540.7	28635.4	27328.9	19628.9
40°	28938.4	28963.6	28629.1	28856.3	28515.5	29266.6	30762.4	30623.5	31008.5	29866.2	21490.8
42.5°	28660.7	28717.5	28850.0	29171.9	29992.4	30894.9	33116.6	32548.6	33015.6	31999.5	23302.2
45°	28206.2	27972.7	28136.8	29361.2	30781.3	32788.4	35268.8	34827.0	34675.5	33823.5	25460.7
47.5°	26035.1	26274.9	26786.1	28294.6	30427.9	33116.6	36796.2	36695.2	37149.7	36550.1	27423.6
50°	23024.5	22929.8	23914.4	25612.2	28364.0	32472.8	36714.2	37629.3	38607.6	37774.5	28300.9
52.5°	17243.1	17748.0	18593.8	20701.8	24627.6	28963.6	34921.7	36449.1	37244.3	37067.6	27594.0
55°	10900.0	11051.5	11562.7	14068.4	17602.9	23245.4	29935.6	33476.4	34896.4	35559.2	26943.9
57.5°	5295.4	5011.4	5636.2	7649.6	10167.9	15633.7	23087.6	29159.3	32245.6	33444.8	25530.1
60°	2764.4	2871.7	3117.9	3837.4	5257.5	8116.6	14390.3	19433.2	24147.9	25990.9	19351.1
62.5°	2291.1	2329.0	2493.1	2852.8	3496.6	4670.5	7346.6	9473.6	12313.8	13973.7	11007.3
65°	1944.0	1962.9	2139.6	2379.4	2789.7	3288.3	3780.6	3957.3	4790.5	4916.7	3913.1
67.5°	1622.1	1641.0	1830.3	2057.6	2322.6	2455.2	2581.4	2568.8	2663.5	2625.6	2619.3
70°	1249.7	1268.6	1464.3	1704.1	1836.7	1760.9	2152.2	2240.6	2278.5	2310.0	2360.5
72.5°	902.5	940.4	1091.9	1262.3	1192.9	1369.6	1773.5	1906.1	1956.6	1975.5	2038.6
75°	656.4	669.0	706.9	656.4	757.4	953.0	1249.7	1413.8	1476.9	1495.8	1590.5
77.5°	290.3	296.6	303.0	378.7	486.0	593.3	744.8	877.3	965.7	990.9	1016.2
80°	151.5	157.8	195.7	258.8	347.1	435.5	542.8	618.5	675.3	681.6	706.9
82.5°	94.7	101.0	138.9	183.0	246.1	321.9	397.6	460.7	504.9	511.2	517.5
85°	44.2	56.8	82.0	113.6	164.1	208.3	214.6	183.0	195.7	202.0	189.3
87.5°	12.6	18.9	25.2	18.9	25.2	25.2	31.6	37.9	37.9	37.9	44.2
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°	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5	7100.5
2.5°	7214.1	7157.3	6936.4	6854.3	6639.7	6677.6	6564.0	6557.7	6532.4	6526.1	6519.8
5°	7390.8	7214.1	6949.0	6747.0	6627.1	6614.5	6532.4	6532.4	6557.7	6576.6	6532.4
7.5°	7681.1	7479.2	7031.0	6841.7	6734.4	6715.5	6658.7	6614.5	6671.3	6652.4	6601.9
10°	8015.6	7662.2	7188.8	7024.7	6848.0	6803.8	6803.8	6822.8	6728.1	6759.6	6709.2
12.5°	8388.0	7914.7	7390.8	7201.5	6993.2	6967.9	6955.3	6816.5	6866.9	6841.7	6715.5
15°	8861.4	8205.0	7649.6	7327.7	7151.0	7037.4	6873.3	6848.0	6816.5	6753.3	6696.5
17.5°	9372.6	8520.6	7769.5	7365.6	7100.5	7018.4	6892.2	6759.6	6665.0	6677.6	6633.4
20°	9808.1	8810.9	7813.7	7403.4	7062.6	6904.8	6709.2	6627.1	6526.1	6519.8	6513.5
22.5°	10325.7	9202.2	7876.8	7302.4	6949.0	6784.9	6652.4	6507.2	6437.8	6349.4	6393.6
25°	10944.2	9353.7	7889.4	7245.6	6866.9	6576.6	6507.2	6349.4	6324.2	6197.9	6223.2
27.5°	11392.3	9435.7	7788.4	7068.9	6677.6	6456.7	6330.5	6216.9	6172.7	6078.0	6052.8
30°	11991.9	9562.0	7573.8	6848.0	6488.3	6242.1	6166.4	6141.1	6014.9	5913.9	5901.3
32.5°	12673.6	9644.0	7435.0	6620.8	6292.6	6103.2	6141.1	6021.2	5863.4	5775.0	5749.8
35°	13216.3	9675.6	7087.8	6362.0	6160.1	6040.1	5996.0	5970.7	5743.5	5661.4	5598.3
37.5°	14043.2	9606.1	6797.5	6179.0	6014.9	5970.7	5932.8	5762.4	5503.7	5383.7	5295.4
40°	15008.8	9587.2	6425.1	5920.2	5876.0	5926.5	5812.9	5547.8	5188.1	5055.5	4992.4
42.5°	15936.6	9719.8	6191.6	5781.4	5724.6	5743.5	5585.7	5188.1	5011.4	4935.6	4834.6
45°	17489.2	9997.5	5806.6	5566.8	5541.5	5528.9	5339.6	4923.0	4822.0	4727.3	4708.4
47.5°	18890.4	9814.4	5560.5	5345.9	5371.1	5301.7	4897.7	4765.2	4651.6	4556.9	4525.4
50°	18972.5	9378.9	5213.3	5175.5	5181.8	5061.8	4676.8	4588.5	4443.3	4380.2	4336.0
52.5°	18543.3	8665.7	4891.4	4904.1	4923.0	4727.3	4405.4	4342.3	4222.4	4134.1	4108.8
55°	17337.8	7554.9	4575.9	4626.4	4676.8	4304.5	4203.5	4045.7	3951.0	3824.8	3831.1
57.5°	15273.9	6084.3	4134.1	4216.1	4323.4	3913.1	3837.4	3641.8	3502.9	3401.9	3389.3
60°	10237.3	4329.7	3471.3	3502.9	3742.7	3578.6	3572.3	3376.7	3187.3	3099.0	3048.5
62.5°	6040.1	3307.2	2998.0	2966.4	2960.1	3054.8	3212.6	3143.1	2897.0	2726.6	2777.1
65°	3162.1	2859.1	2789.7	2682.4	2619.3	2594.0	2714.0	2745.5	2581.4	2398.4	2385.8
67.5°	2657.2	2657.2	2600.3	2562.5	2474.1	2366.8	2291.1	2190.1	2164.9	2114.4	2051.2
70°	2417.3	2480.4	2461.5	2373.1	2297.4	2177.5	1981.8	1817.7	1659.9	1603.1	1641.0
72.5°	2108.1	2171.2	2171.2	2127.0	2026.0	1843.0	1653.6	1464.3	1331.7	1230.7	1218.1
75°	1622.1	1653.6	1729.4	1678.9	1546.3	1432.7	1237.1	1041.4	915.2	820.5	801.6
77.5°	1035.1	1085.6	1085.6	1079.3	984.6	877.3	751.1	612.2	517.5	448.1	429.2
80°	688.0	719.5	744.8	719.5	656.4	574.3	479.7	385.0	315.6	258.8	246.1
82.5°	504.9	542.8	561.7	536.5	473.4	410.2	340.8	271.4	202.0	157.8	145.2
85°	195.7	202.0	227.2	271.4	265.1	258.8	208.3	151.5	113.6	82.0	75.7
87.5°	50.5	44.2	50.5	50.5	44.2	37.9	37.9	37.9	37.9	18.9	25.2
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)