

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: P652629

Luminaire Tested: **GALN-SA9B-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44213 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

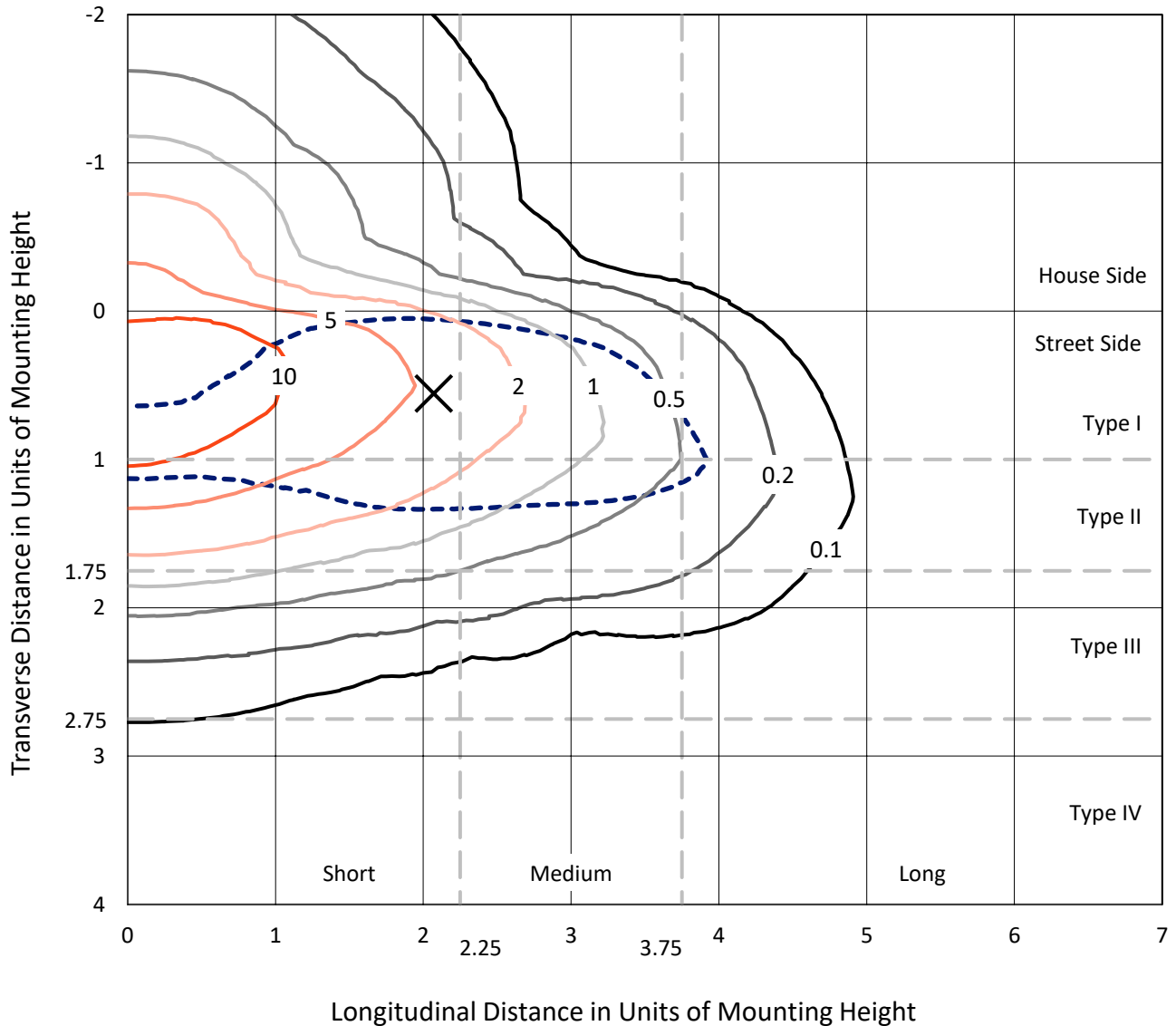
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

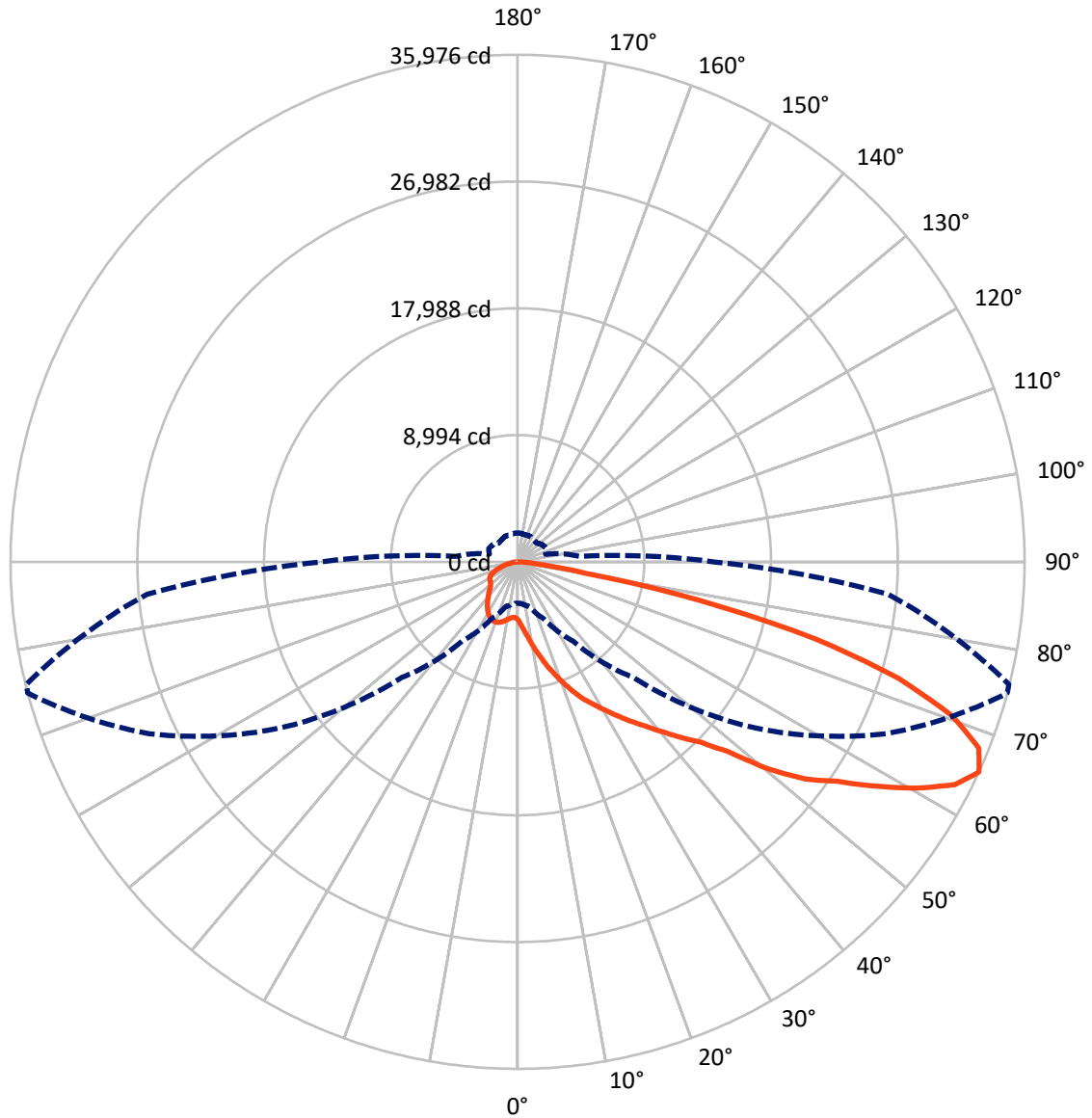
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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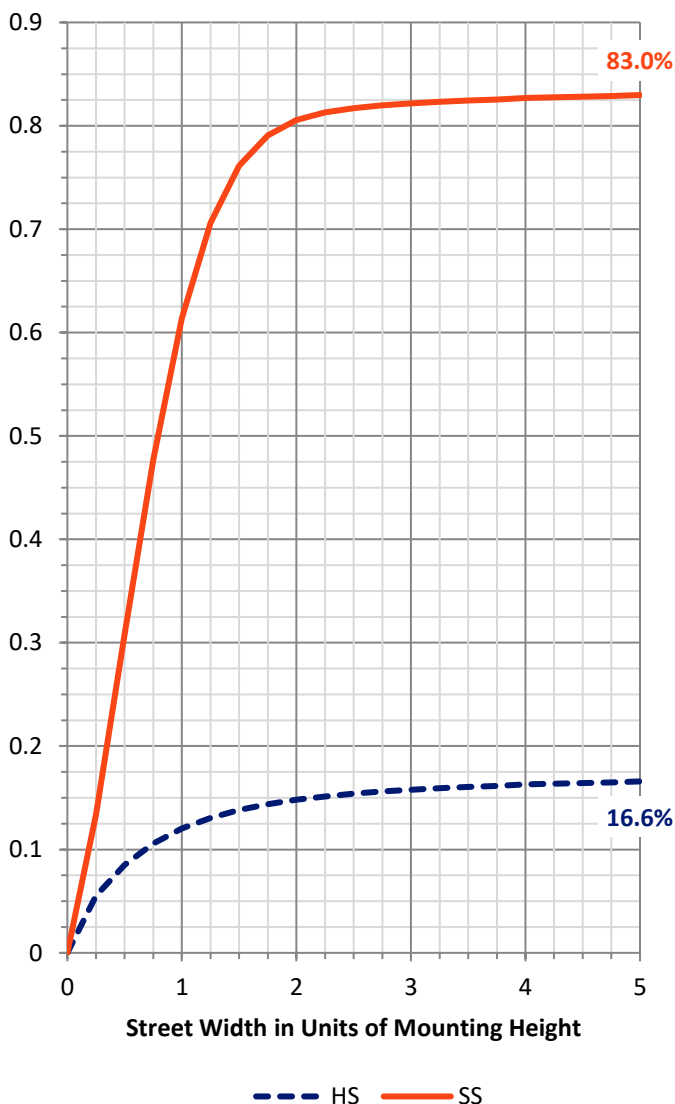
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7432.8	0.0	7432.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36780.3	0.0	36780.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	44213.0	0.0	44213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.1	1.1
10°-20°	1954.9	4.4
20°-30°	3776.2	8.5
30°-40°	6133.8	13.9
40°-50°	8437.5	19.1
50°-60°	9961.9	22.5
60°-70°	8728.2	19.7
70°-80°	4166.9	9.4
80°-90°	554.5	1.3
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°	44213.0	100.0
0°-180°	44213.0	100.0

Coefficient of Utilization



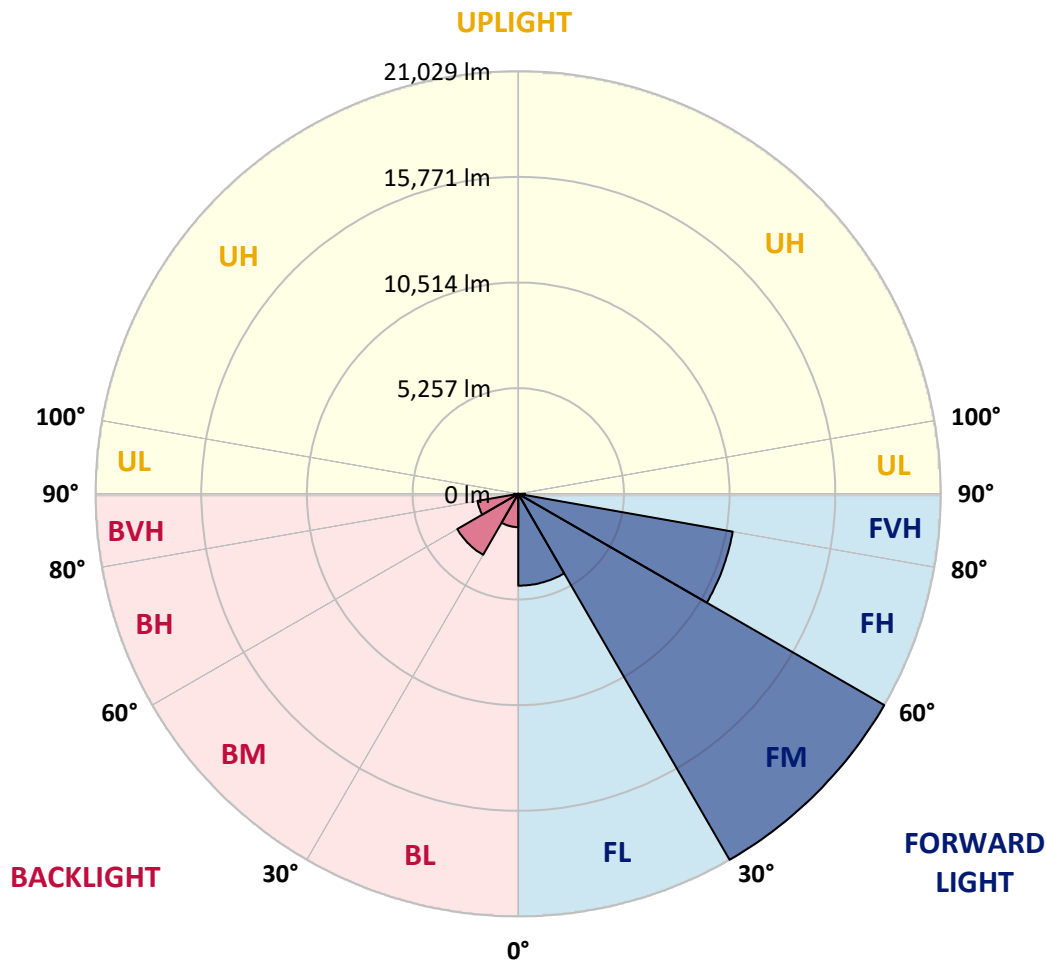
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4570.9	10.3			
FM (30°-60°)	21028.7	47.6			
FH (60°-80°)	10834.2	24.5			G4/12000
FVH (80°-90°)	346.5	0.8			G3/500
BL (0°-30°)	1659.3	3.8	B3/2500		
BM (30°-60°)	3504.5	7.9	B3/5000		
BH (60°-80°)	2061.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	208.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9
2.5°	5458.1	5422.1	5383.7	5278.2	5165.5	5038.4	4856.2	4681.1	4448.5	4441.3	4268.7
5°	6971.3	6947.3	6777.0	6678.7	6417.3	6069.6	5774.6	5316.6	4892.1	4841.8	4506.1
7.5°	8362.1	8268.6	8203.9	8026.4	7767.5	7321.4	6750.6	6132.0	5422.1	5355.0	4798.6
10°	9410.1	9400.5	9367.0	9213.5	9019.3	8575.6	7942.5	7055.2	6093.5	5961.7	5153.6
12.5°	10194.3	10201.5	10196.7	10194.3	10055.2	9678.7	8992.9	8057.6	6772.2	6678.7	5563.6
15°	10710.0	10781.9	10810.6	10930.6	10942.5	10690.7	10100.8	9026.5	7537.2	7398.1	6004.8
17.5°	11050.5	11086.4	11220.7	11424.6	11590.1	11544.5	11019.3	9923.4	8319.0	8086.4	6462.9
20°	11376.6	11438.9	11542.1	11820.3	12112.8	12247.1	11877.8	10841.8	9093.6	8945.0	6968.9
22.5°	12055.2	12144.0	12180.0	12321.5	12570.8	12808.3	12640.4	11721.9	9942.6	9741.1	7506.1
25°	13204.0	13297.5	13196.8	13163.2	13244.7	13362.2	13326.2	12551.7	10743.5	10455.7	8014.5
27.5°	14700.3	14712.4	14515.7	14328.7	14127.2	14067.2	13957.0	13287.9	11438.9	11199.2	8525.2
30°	16307.1	16249.5	15923.4	15585.2	15244.7	14909.0	14592.4	13997.7	12213.5	11937.7	9026.5
32.5°	17798.8	17767.6	17405.4	16880.2	16304.7	15988.2	15347.8	14714.7	13043.3	12777.1	9542.1
35°	18916.3	18961.8	18563.7	17990.6	17362.3	17081.7	16273.5	15467.8	13901.8	13611.7	10103.2
37.5°	19710.0	19686.0	19333.5	18837.1	18285.5	18041.0	17355.0	16290.3	14825.1	14546.9	10717.1
40°	19993.0	19978.6	19717.2	19355.1	19005.0	18918.6	18486.9	17177.6	15882.6	15556.5	11455.8
42.5°	19813.1	19844.3	19671.7	19573.3	19508.6	19570.9	19611.7	18340.7	17036.1	16736.4	12256.7
45°	19261.6	19244.8	19220.8	19381.4	19746.0	20156.1	20724.4	19439.0	18290.3	18050.6	13331.0
47.5°	18275.9	18395.9	18455.8	18899.5	19695.6	20666.8	22005.0	20911.5	20110.5	19901.8	14969.0
50°	16897.0	16993.0	17347.9	18136.8	19323.9	20858.7	23256.8	23319.2	23146.5	22755.6	16748.3
52.5°	14743.6	14892.3	15623.7	17069.7	18561.3	20779.6	24014.6	25383.9	25611.7	25319.1	18501.3
55°	12333.4	12542.1	13314.3	15211.2	17511.0	20347.9	24537.4	26580.6	27489.4	27218.5	20189.6
57.5°	9973.7	10194.3	10988.1	12825.1	15678.8	19393.5	24880.3	27913.9	30045.8	29693.4	22290.4
60°	7474.9	7705.1	8386.2	10278.3	13069.6	17527.7	24647.7	29069.8	32599.9	32448.7	24393.5
62.5°	4822.5	5076.8	5669.1	7235.0	10045.7	14978.5	23403.1	29707.7	34810.8	34628.6	25928.3
65°	2937.7	2966.5	3292.6	4491.6	6875.3	11597.2	20556.6	28861.2	35976.4	35921.2	26396.0
67.5°	1899.3	1944.9	2093.6	2690.7	4122.3	8055.3	16436.6	26067.4	35295.3	35276.1	25429.5
70°	1604.3	1618.8	1685.9	1815.4	2395.7	4884.9	11542.1	21614.1	32707.8	32707.8	23105.7
72.5°	1434.1	1453.2	1477.2	1518.0	1709.8	2767.4	6887.4	16825.1	28240.0	28427.1	19666.9
75°	1302.2	1297.4	1311.8	1318.9	1458.0	1808.2	3561.2	12443.8	21846.7	21472.6	14242.3
77.5°	1115.1	1122.3	1115.1	1146.3	1287.8	1376.5	1808.2	8350.2	13239.9	12755.5	7148.8
80°	916.1	928.0	940.1	959.2	1100.7	1045.5	1086.3	3805.8	4896.9	4793.8	2208.6
82.5°	688.3	705.0	724.3	769.8	865.7	690.6	685.8	1625.9	1767.4	1618.8	813.0
85°	278.2	328.6	496.4	541.9	544.4	378.9	422.1	678.7	721.8	705.0	318.9
87.5°	64.8	76.7	160.6	242.2	223.0	141.5	155.8	220.6	251.8	232.6	107.9
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°	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9	4107.9
2.5°	4189.5	4105.6	3961.7	3851.4	3772.2	3702.7	3659.5	3633.1	3623.5	3621.2	3623.5
5°	4331.0	4182.3	3954.5	3810.6	3731.4	3685.9	3659.5	3657.1	3659.5	3661.9	3654.7
7.5°	4525.3	4311.8	4014.4	3880.1	3820.2	3786.6	3774.6	3769.8	3772.2	3769.8	3769.8
10°	4784.2	4491.6	4131.9	3992.8	3942.4	3904.1	3884.9	3873.0	3863.4	3853.7	3848.9
12.5°	5069.6	4690.7	4259.0	4124.8	4052.8	3992.8	3949.7	3918.5	3896.9	3875.3	3870.5
15°	5388.5	4901.7	4400.5	4213.5	4110.4	4021.6	3947.3	3896.9	3858.5	3827.4	3825.0
17.5°	5693.1	5100.7	4496.4	4254.2	4103.2	3978.4	3880.1	3810.6	3762.6	3721.8	3717.1
20°	6019.2	5290.2	4539.6	4227.9	4031.2	3880.1	3750.6	3666.7	3611.5	3566.0	3558.8
22.5°	6347.8	5450.9	4534.8	4143.9	3906.5	3729.1	3592.3	3503.6	3438.8	3393.4	3376.5
25°	6661.9	5580.4	4474.9	4009.6	3733.9	3549.2	3410.1	3328.6	3271.0	3215.8	3215.8
27.5°	6944.9	5657.2	4362.2	3846.6	3556.4	3362.1	3251.8	3177.5	3124.7	3088.7	3067.2
30°	7223.1	5693.1	4208.7	3640.4	3369.3	3203.9	3115.1	3072.0	3024.0	2983.3	2978.5
32.5°	7472.5	5685.9	4016.8	3438.8	3191.8	3074.4	3038.4	3004.8	2954.4	2896.9	2882.5
35°	7714.7	5638.0	3789.0	3218.3	3043.2	2997.7	3007.2	2959.2	2868.1	2796.2	2784.2
37.5°	7978.5	5551.6	3539.6	3038.4	2918.5	2961.7	2985.6	2880.1	2731.4	2618.7	2592.4
40°	8283.0	5453.3	3280.6	2858.6	2820.2	2928.1	2928.1	2733.8	2530.0	2460.4	2441.3
42.5°	8640.3	5371.7	3064.8	2707.4	2738.6	2846.5	2834.6	2539.6	2455.6	2419.7	2410.1
45°	9206.3	5343.0	2841.7	2575.6	2671.5	2750.7	2652.3	2472.5	2424.5	2395.7	2386.1
47.5°	10100.8	5376.5	2645.1	2477.2	2594.7	2654.7	2448.5	2426.9	2393.3	2352.5	2347.7
50°	10930.6	5345.4	2506.0	2422.1	2527.6	2539.6	2364.6	2371.7	2352.5	2306.9	2297.4
52.5°	11609.2	5247.1	2417.3	2393.3	2470.0	2338.1	2285.4	2311.7	2304.6	2247.0	2237.4
55°	12355.0	5187.1	2374.1	2393.3	2431.7	2163.1	2211.1	2249.4	2239.8	2199.0	2196.7
57.5°	13259.1	5199.1	2342.9	2400.5	2393.3	2074.3	2136.7	2182.3	2179.9	2167.8	2167.8
60°	14184.8	5203.9	2295.0	2398.1	2347.7	2004.8	2059.9	2124.7	2129.5	2136.7	2136.7
62.5°	14491.8	4995.3	2201.5	2355.0	2247.0	1937.7	1988.0	2076.8	2072.0	2091.1	2093.6
65°	13918.6	4417.3	2062.4	2256.7	2117.6	1889.7	1932.9	2014.4	1988.0	2038.4	2048.0
67.5°	12669.2	3654.7	1846.5	2079.1	1973.7	1839.4	1896.9	1928.1	1880.1	1978.5	1980.8
70°	10949.7	2853.8	1573.2	1827.3	1810.6	1786.6	1868.1	1820.2	1753.0	1872.9	1848.9
72.5°	9156.0	2179.9	1256.6	1494.0	1592.3	1707.5	1817.7	1681.1	1587.6	1623.6	1580.3
75°	6877.8	1611.5	1009.6	1170.3	1326.2	1594.7	1772.2	1513.2	1369.3	1335.8	1326.2
77.5°	3506.0	1052.8	755.4	875.3	995.2	1441.2	1709.8	1316.6	1134.3	1081.5	1057.6
80°	1251.8	654.7	532.4	604.3	671.5	1239.8	1494.0	1088.8	880.1	870.5	880.1
82.5°	580.4	422.1	357.3	395.7	398.0	827.4	1139.1	813.0	669.1	1016.8	858.5
85°	249.4	211.0	201.4	196.6	182.2	369.3	640.3	436.5	681.0	304.5	280.6
87.5°	74.3	83.9	74.3	55.2	40.8	40.8	64.8	24.0	16.8	12.0	12.0
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)