

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: P458256

Luminaire Tested: **GALN-SA9C-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51142 lumens
Efficiency: N/A
Efficacy: 106.3 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): 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



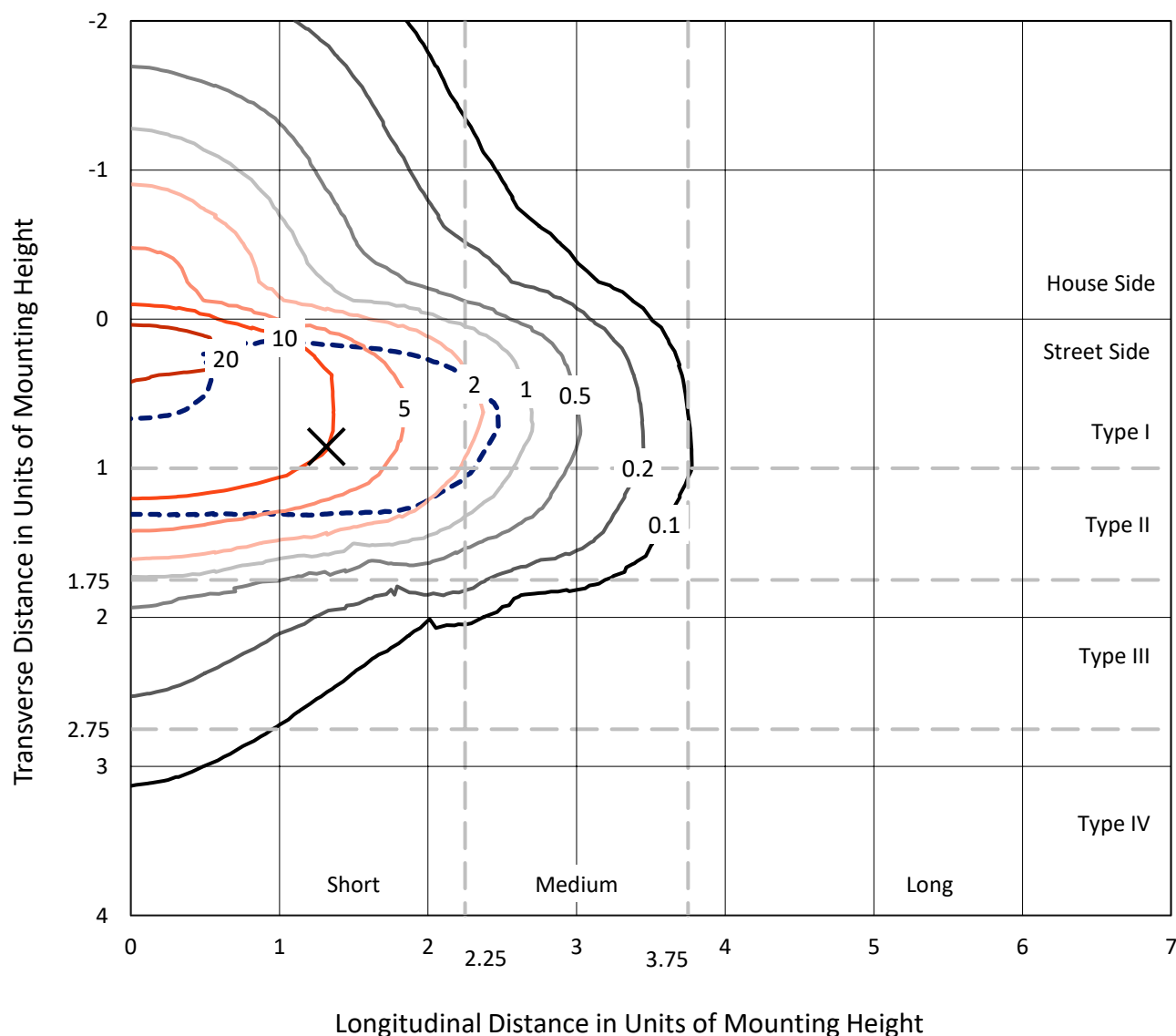
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



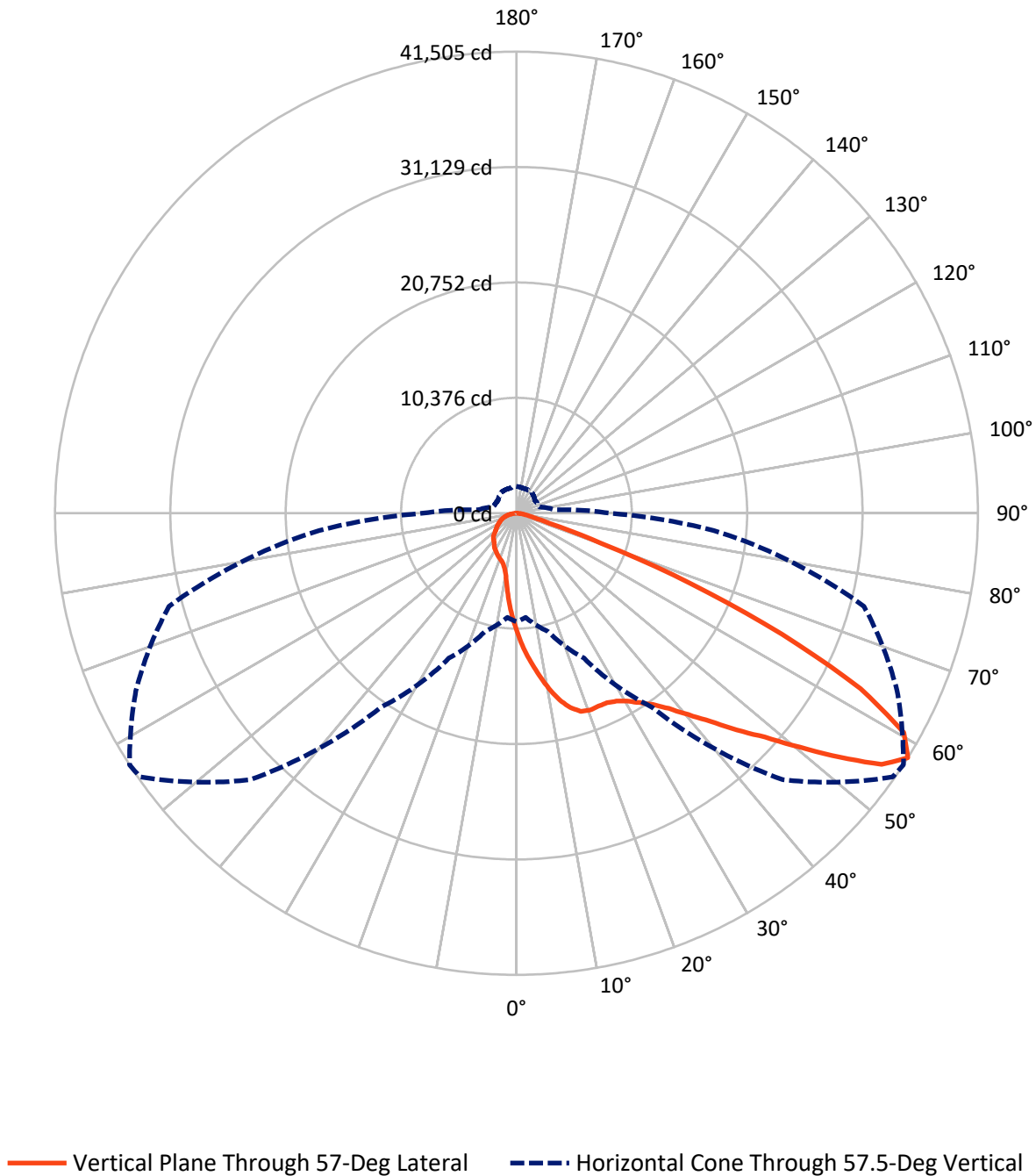
Based on 25 foot mounting height. Maximum calculated value = 26.2 fc

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	7777.3	0.0	7777.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	43364.7	0.0	43364.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	51142.0	0.0	51142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.6	2.0
10°-20°	3043.2	6.0
20°-30°	5053.4	9.9
30°-40°	7611.8	14.9
40°-50°	11428.4	22.3
50°-60°	12809.8	25.0
60°-70°	7496.9	14.7
70°-80°	2217.5	4.3
80°-90°	448.2	0.9
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°	51142.0	100.0
0°-180°	51142.0	100.0

Coefficient of Utilization



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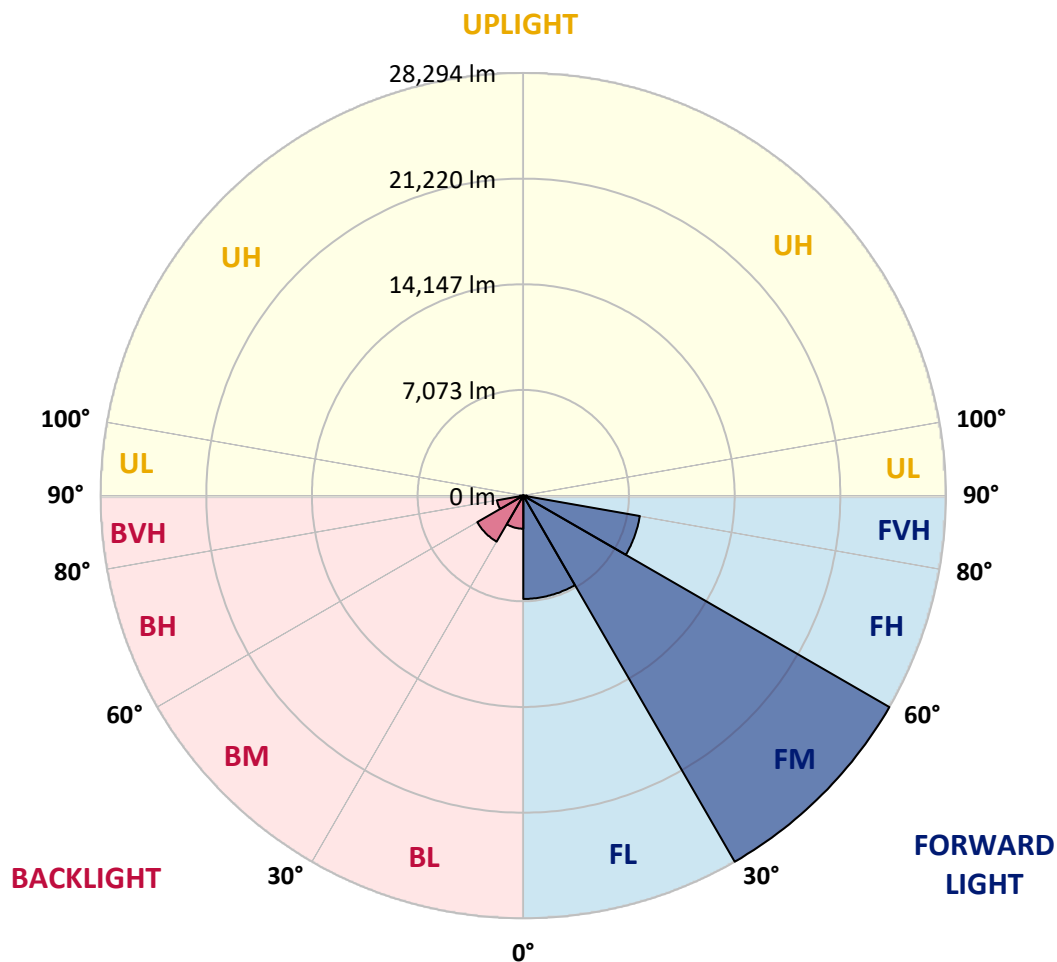
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6913.2	13.5			
FM	(30°-60°)	28294.0	55.3			
FH	(60°-80°)	7925.0	15.5			G4/12000
FVH	(80°-90°)	232.6	0.5			G3/500
BL	(0°-30°)	2216.0	4.3	B3/2500		
BM	(30°-60°)	3556.1	7.0	B3/5000		
BH	(60°-80°)	1789.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	215.7	0.4			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°	57°	65°	75°	85°
0°	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3
2.5°	13350.7	13205.1	13090.3	12989.5	12857.9	12502.4	12146.9	12141.3	11858.5	11421.8	10973.9
5°	15525.8	15329.9	15355.1	15041.5	14728.0	14212.9	13459.8	13420.6	12818.8	12001.3	11169.9
7.5°	16942.4	16945.2	16866.8	16687.6	16348.9	15763.8	14910.0	14716.8	13879.8	12639.6	11393.8
10°	16869.6	16945.2	17076.7	17230.7	17334.3	17045.9	16267.7	16032.5	14943.5	13412.2	11643.0
12.5°	15901.0	16018.5	16206.1	16592.4	17216.7	17692.6	17426.7	17236.3	16175.3	14182.1	11917.3
15°	15296.3	15366.3	15469.8	15730.2	16402.1	17541.5	18230.1	18129.3	17337.1	15052.7	12225.3
17.5°	15111.5	15181.5	15215.1	15374.7	15853.4	17020.8	18546.5	18725.6	18367.3	15853.4	12536.0
20°	15296.3	15329.9	15329.9	15425.1	15800.2	16715.6	18532.5	18893.6	19212.7	16813.6	12827.2
22.5°	15780.6	15794.6	15775.0	15808.6	16088.5	16799.6	18400.9	18848.8	19895.8	17628.2	13053.9
25°	16567.2	16589.6	16460.9	16382.5	16586.8	17169.1	18473.7	18885.2	20430.5	18406.5	13205.1
27.5°	17460.3	17488.3	17331.5	17149.5	17244.7	17625.4	18759.2	19128.7	20830.8	19173.5	13300.3
30°	18554.9	18566.1	18302.9	18084.5	18023.0	18305.7	19246.3	19590.7	21329.1	20077.8	13443.0
32.5°	19674.6	19758.6	19419.9	19112.0	19008.4	19095.2	19965.8	20298.9	21922.6	21049.2	13672.6
35°	21197.6	21211.6	20805.6	20430.5	20089.0	20200.9	20886.8	21127.6	22742.9	22171.8	13997.3
37.5°	23098.4	23227.2	22667.3	21967.4	21547.5	21385.1	22001.0	22264.1	23893.4	23549.1	14487.2
40°	25209.2	25256.8	24778.1	24341.4	23574.3	23104.0	23529.5	23815.1	25312.8	25192.4	15055.5
42.5°	26536.1	26639.7	26676.1	26631.3	26054.6	25265.2	25427.5	25561.9	26992.4	26734.9	15637.8
45°	26984.0	27138.0	27658.7	28761.7	28823.3	28045.0	27667.1	27795.9	28823.3	28291.4	16194.9
47.5°	26242.2	26505.3	27465.6	29727.5	31421.2	31480.0	30340.6	30057.9	30491.8	29582.0	16598.0
50°	24324.6	24380.5	25850.3	29125.6	32639.0	34763.8	33585.2	33058.9	32076.3	30536.6	16875.2
52.5°	21357.1	21421.5	22653.3	26329.0	31888.7	37059.3	37381.3	36440.6	33686.0	31278.4	17057.1
55°	15853.4	16225.7	17580.6	21133.2	28333.4	36843.8	40399.1	39864.4	35631.6	31866.3	17342.7
57.5°	9747.7	9406.2	11013.1	14378.1	21309.5	33881.9	41331.3	41504.9	37773.2	32359.0	17821.4
60°	4484.7	4551.9	5215.4	7415.8	12989.5	26505.3	38929.4	40026.8	38957.4	32342.2	17941.8
62.5°	3090.6	3029.0	2861.1	3255.8	5923.7	16763.2	32882.5	34741.4	36583.4	31337.2	17463.1
65°	2763.1	2701.5	2376.7	2267.6	2721.1	7306.6	23904.6	26250.6	30802.5	28800.9	16270.5
67.5°	2581.1	2497.1	2161.2	1948.4	1942.8	2908.6	14095.3	16920.0	22846.4	24349.8	14098.1
70°	2390.7	2323.6	1990.4	1755.3	1654.5	1828.1	6195.2	8110.1	14834.4	17547.1	10982.3
72.5°	2200.4	2122.0	1822.5	1570.5	1438.9	1368.9	2373.9	3087.8	8381.6	10520.4	6732.7
75°	1923.2	1884.0	1629.3	1422.1	1279.4	1105.8	1506.1	1718.9	4008.8	4831.9	3379.0
77.5°	1682.5	1640.5	1447.3	1243.0	1139.4	898.6	1069.4	1167.4	1690.9	1959.6	1525.7
80°	1231.8	1273.8	1220.6	1097.4	1016.2	705.5	719.5	800.6	1005.0	1111.4	932.2
82.5°	781.1	859.4	940.6	845.4	769.9	557.1	498.3	529.1	685.9	727.9	414.3
85°	327.5	333.1	545.9	515.1	439.5	330.3	299.5	316.3	366.7	383.5	193.2
87.5°	126.0	123.2	193.2	179.2	137.2	95.2	95.2	106.4	145.6	134.4	61.6
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°	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3	10744.3
2.5°	10780.7	10582.0	10187.3	9697.3	9339.0	8935.9	8580.4	8325.6	8230.4	8185.6	8101.7
5°	10772.3	10380.4	9563.0	8706.3	8017.7	7312.2	6715.9	6329.6	6296.0	6038.4	6013.3
7.5°	10775.1	10176.1	8874.3	7614.5	6564.7	5842.5	5349.8	5221.0	5067.0	5027.8	5047.4
10°	10783.5	9915.7	8135.2	6534.0	5517.7	5044.6	4859.9	4809.5	4815.1	4831.9	4834.7
12.5°	10794.7	9663.8	7368.2	5713.7	4929.9	4733.9	4714.3	4759.1	4806.7	4843.1	4851.5
15°	10808.7	9375.4	6620.7	5053.0	4635.9	4619.1	4683.5	4759.1	4826.3	4879.5	4887.9
17.5°	10791.9	9039.5	5993.7	4647.1	4473.5	4554.7	4661.1	4756.3	4817.9	4868.3	4873.9
20°	10752.7	8664.3	5389.0	4361.6	4372.8	4504.3	4619.1	4708.7	4775.9	4801.1	4820.7
22.5°	10601.6	8216.4	4862.7	4140.4	4252.4	4434.4	4571.5	4624.7	4549.1	4495.9	4509.9
25°	10344.0	7634.1	4372.8	3961.2	4143.2	4336.4	4476.3	4347.6	4286.0	4263.6	4274.8
27.5°	10022.1	6995.9	4003.2	3773.7	4003.2	4227.2	4188.0	4165.6	4137.6	4101.2	4109.6
30°	9675.0	6371.6	3689.7	3628.1	3852.1	3980.8	3997.6	4034.0	4003.2	3947.2	3969.6
32.5°	9353.0	5783.7	3451.7	3504.9	3745.7	3726.1	3852.1	3894.1	3751.3	3563.7	3572.1
35°	9078.7	5237.8	3272.6	3384.6	3563.7	3572.1	3698.1	3552.5	3398.6	3309.0	3314.6
37.5°	8871.5	4812.3	3155.0	3281.0	3331.4	3437.7	3370.6	3295.0	3275.4	3213.8	3216.6
40°	8748.3	4440.0	3079.4	3199.8	3191.4	3264.2	3048.6	3124.2	3152.2	3132.6	3135.4
42.5°	8625.2	4176.8	3001.0	3087.8	3085.0	2942.2	2894.6	2959.0	3031.8	3040.2	3034.6
45°	8527.2	3972.4	2919.8	2917.0	2973.0	2749.1	2735.1	2774.3	2877.9	2928.2	2925.4
47.5°	8418.0	3801.7	2796.7	2718.3	2735.1	2628.7	2606.3	2623.1	2749.1	2830.3	2852.7
50°	8280.8	3630.9	2642.7	2536.3	2466.3	2516.7	2522.3	2525.1	2651.1	2743.5	2763.1
52.5°	8171.6	3502.1	2466.3	2387.9	2304.0	2415.9	2457.9	2463.5	2539.1	2614.7	2628.7
55°	8236.0	3429.3	2292.8	2236.8	2161.2	2312.4	2393.5	2404.7	2421.5	2477.5	2485.9
57.5°	8429.2	3446.1	2152.8	2080.0	2024.0	2189.2	2326.4	2334.8	2323.6	2390.7	2401.9
60°	8488.0	3437.7	2049.2	1906.4	1872.8	2057.6	2228.4	2245.2	2242.4	2340.4	2359.9
62.5°	8241.6	3331.4	1945.6	1760.9	1738.5	1923.2	2091.2	2158.4	2172.4	2312.4	2337.6
65°	7662.1	3113.0	1808.5	1606.9	1606.9	1780.5	1959.6	2052.0	2091.2	2278.8	2306.8
67.5°	6897.9	2855.5	1668.5	1475.3	1469.7	1643.3	1819.7	1914.8	1976.4	2231.2	2248.0
70°	5724.9	2508.3	1494.9	1332.5	1332.5	1489.3	1648.9	1763.7	1853.2	2141.6	2141.6
72.5°	3922.1	2085.6	1285.0	1170.2	1173.0	1318.5	1480.9	1609.7	1716.1	1962.4	1968.0
75°	2480.3	1629.3	1055.4	996.6	1007.8	1145.0	1312.9	1447.3	1660.1	1940.0	1948.4
77.5°	1318.5	1145.0	839.8	825.8	839.8	965.8	1153.4	1338.1	1665.7	1682.5	1654.5
80°	853.8	811.8	663.5	635.5	641.1	778.3	1027.4	1271.0	1338.1	1354.9	1293.4
82.5°	464.7	515.1	470.3	442.3	442.3	607.5	876.2	1010.6	960.2	797.8	761.5
85°	198.8	240.8	243.6	212.8	204.4	375.1	587.9	551.5	512.3	489.9	484.3
87.5°	56.0	78.4	78.4	58.8	44.8	103.6	117.6	33.6	0.0	2.8	5.6
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)