

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: P458276

Luminaire Tested: **GALN-SA9C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51828 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

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

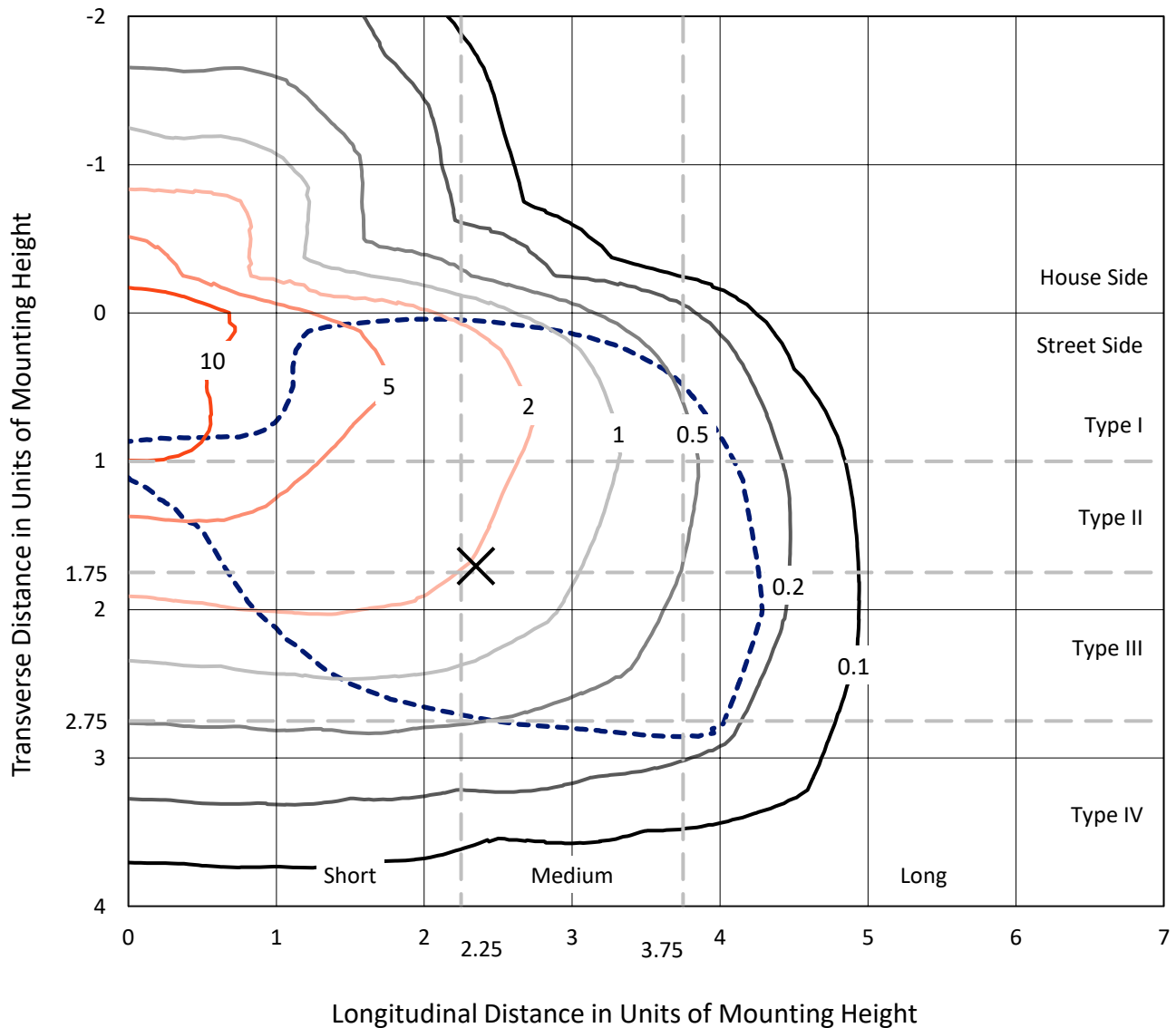


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

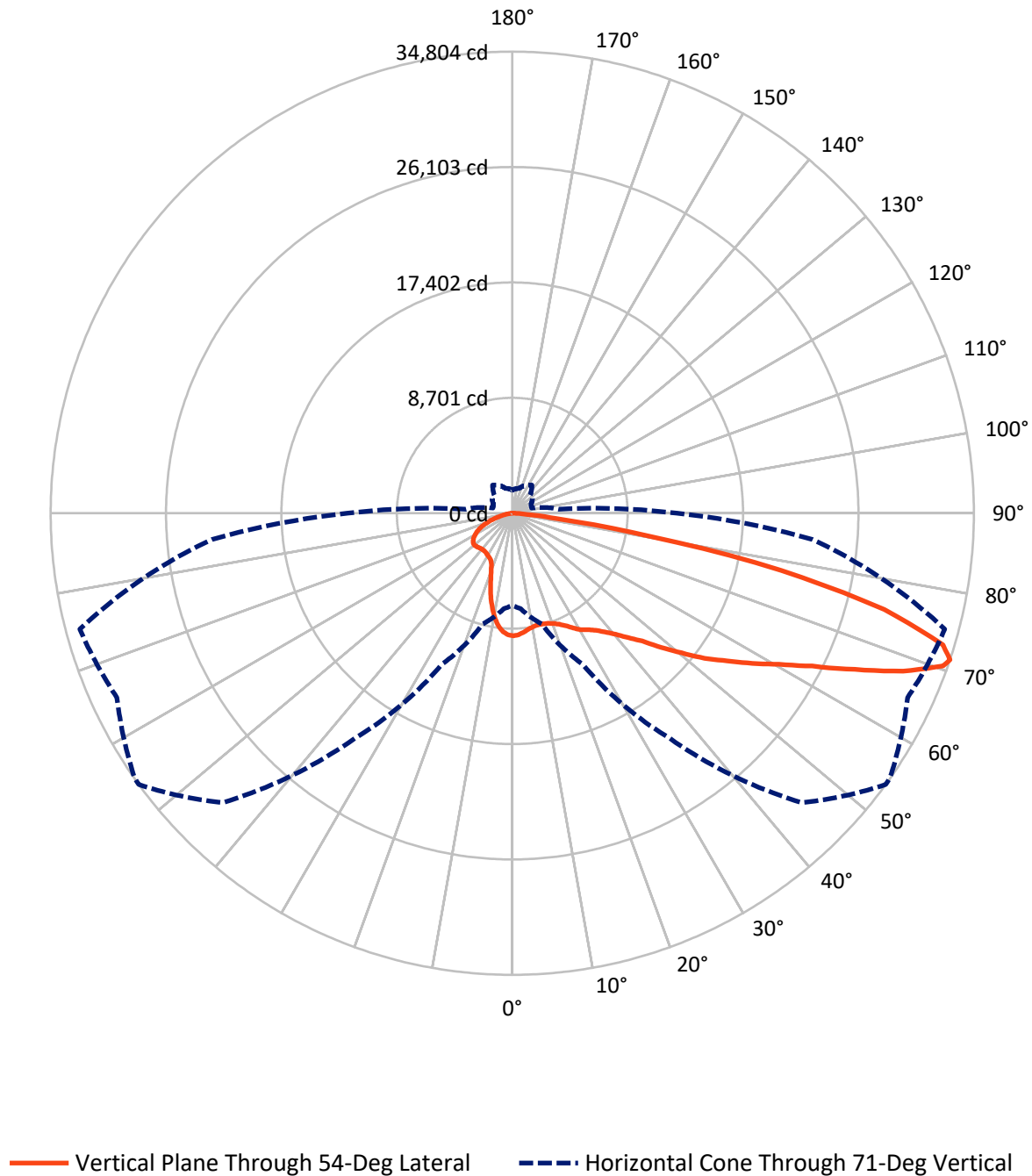


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9357.2	0.0	9357.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	42470.8	0.0	42470.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	51828.0	0.0	51828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.0	1.6
10°-20°	2175.9	4.2
20°-30°	3622.9	7.0
30°-40°	5357.1	10.3
40°-50°	7545.7	14.6
50°-60°	10104.0	19.5
60°-70°	12735.3	24.6
70°-80°	8698.2	16.8
80°-90°	764.9	1.5
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°	51828.0	100.0
0°-180°	51828.0	100.0

Coefficient of Utilization



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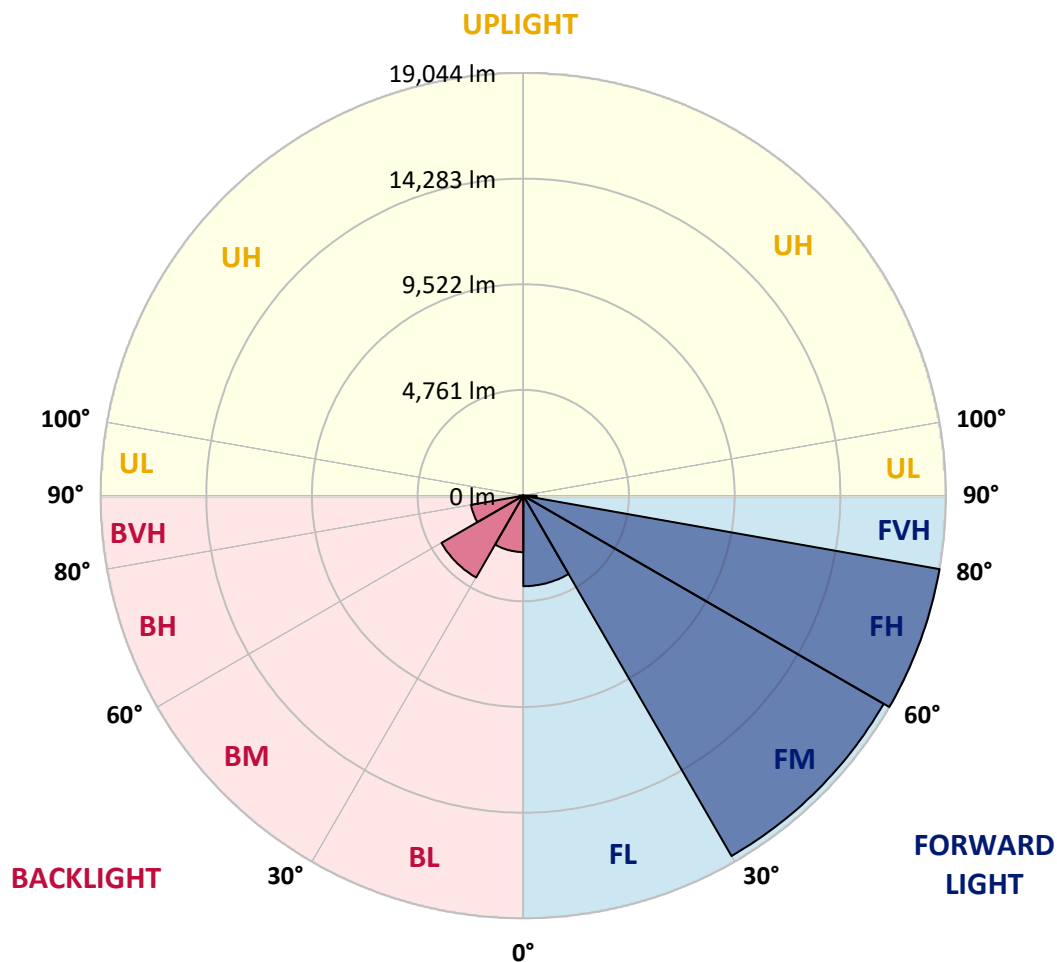
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4079.7	7.9			
FM	(30°-60°)	18749.5	36.2			
FH	(60°-80°)	19043.6	36.7			G5
FVH	(80°-90°)	597.9	1.2			G4/750
BL	(0°-30°)	2543.1	4.9	B4/5000		
BM	(30°-60°)	4257.3	8.2	B3/5000		
BH	(60°-80°)	2389.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	167.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9
2.5°	8933.3	8975.3	8986.5	9014.5	9073.3	9120.9	9168.5	9162.9	9230.1	9258.1	9283.3
5°	8535.8	8547.0	8589.0	8645.0	8748.6	8880.1	9008.9	9011.7	9176.9	9308.5	9372.9
7.5°	8244.6	8281.0	8309.0	8367.8	8477.0	8619.8	8824.2	8840.9	9134.9	9395.3	9532.4
10°	8054.3	8096.3	8127.1	8199.9	8309.0	8468.6	8689.8	8720.6	9104.1	9532.4	9773.2
12.5°	7880.7	7922.7	7950.7	8045.9	8188.7	8384.6	8633.8	8670.2	9115.3	9692.0	10036.4
15°	7987.1	8020.7	8009.5	8037.5	8132.7	8356.6	8656.2	8692.6	9157.3	9846.0	10296.7
17.5°	8460.2	8488.2	8395.8	8289.4	8244.6	8409.8	8726.2	8765.4	9241.3	10005.6	10562.7
20°	9157.3	9232.9	9031.3	8793.4	8577.8	8600.2	8871.7	8913.7	9358.9	10165.1	10834.2
22.5°	10064.3	10120.3	9874.0	9482.0	9084.5	8880.1	9090.1	9115.3	9535.2	10372.3	11131.0
25°	11131.0	11164.6	10823.0	10319.1	9745.2	9358.9	9389.7	9434.5	9826.4	10607.5	11394.1
27.5°	12166.8	12273.2	11878.5	11262.6	10506.7	9862.8	9801.2	9829.2	10142.7	10739.0	11576.1
30°	13395.8	13387.4	12970.3	12256.4	11287.7	10411.5	10190.3	10184.7	10313.5	10803.4	11707.7
32.5°	14375.6	14490.4	14081.7	13303.4	12180.8	10979.8	10459.1	10447.9	10445.1	10915.4	11903.6
35°	15489.9	15506.7	15131.5	14347.6	13146.6	11693.7	10834.2	10778.2	10713.8	11156.2	12169.6
37.5°	16486.5	16564.9	16220.5	15341.5	14095.7	12435.6	11349.3	11312.9	11117.0	11573.3	12595.1
40°	17264.8	17323.6	17116.4	16279.3	15030.7	13236.2	12004.4	11937.2	11699.3	12256.4	13163.4
42.5°	17519.5	17639.9	17721.1	17309.6	16105.8	14185.3	12810.7	12726.7	12544.7	13292.2	13818.5
45°	17539.1	17729.5	18157.8	18177.4	17186.4	15321.9	13751.3	13692.6	13678.6	14619.2	14739.6
47.5°	17390.7	17583.9	18303.4	18692.5	18149.4	16469.7	15109.1	15016.7	15025.1	16259.7	15772.6
50°	17032.4	17262.0	18135.4	19022.9	18902.5	17662.3	16542.5	16511.7	16685.3	18132.6	16844.8
52.5°	16357.7	16634.9	17961.9	19230.0	19462.4	18689.7	18171.8	18085.0	18524.6	20165.1	18017.8
55°	14490.4	14907.6	17326.4	19344.8	19994.3	19672.4	19638.8	19795.6	20377.9	22382.3	19308.4
57.5°	13516.2	13829.7	15946.2	19364.4	20666.2	20814.6	21352.1	21391.3	22410.3	24736.7	20767.0
60°	12984.3	13261.4	15190.3	19235.6	21604.1	22228.4	23104.6	23244.6	24395.2	27287.1	22278.7
62.5°	12519.5	12757.5	14736.8	18790.5	22662.3	24325.2	25375.0	25442.2	26648.8	30103.5	23770.9
65°	11424.9	11696.5	13824.1	18345.4	23574.9	26945.6	28387.3	28309.0	29048.0	32533.5	24705.9
67.5°	9949.6	10293.9	12119.2	16808.4	24025.7	29809.5	31780.4	31682.4	31416.4	34126.4	24974.7
70°	8065.5	8250.2	9938.4	14151.7	22225.6	31312.9	34459.5	34356.0	32883.4	34336.4	23703.7
71°	6940.1	7228.4	8653.4	12569.9	20727.8	30853.7	34803.9	34775.9	32886.2	33756.9	22746.3
72.5°	5417.1	5593.5	6853.3	9739.6	17617.5	28244.6	33952.8	34059.2	32172.3	32147.1	20772.6
75°	3426.6	3505.0	4300.1	5733.5	9666.8	20002.7	28983.6	29272.0	28566.5	26312.9	15447.9
77.5°	1990.5	2091.3	2575.6	3379.0	4176.9	10856.6	20739.0	21052.5	19848.7	14487.6	6324.2
80°	1159.0	1271.0	1696.5	1962.5	1917.7	4028.5	10559.9	11094.6	8594.6	3659.0	1774.9
82.5°	643.9	719.5	1192.6	1195.4	1021.8	1315.8	3323.1	3477.0	2452.4	1475.4	725.1
85°	467.5	529.1	769.9	697.1	489.9	565.5	1156.2	1212.2	991.0	621.5	235.2
87.5°	165.2	235.2	422.7	335.9	134.4	117.6	333.1	271.6	252.0	173.6	53.2
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°	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9	9246.9
2.5°	9297.3	9302.9	9274.9	9224.5	9174.1	9109.7	9036.9	8980.9	8955.7	8952.9	8950.1
5°	9398.1	9412.1	9305.7	9148.9	8975.3	8762.6	8580.6	8373.4	8320.2	8236.2	8261.4
7.5°	9560.4	9552.0	9342.1	9008.9	8603.0	8152.3	7771.5	7550.4	7320.8	7256.4	7259.2
10°	9792.8	9739.6	9342.1	8723.4	8045.9	7376.8	6844.9	6508.9	6327.0	6175.8	6119.8
12.5°	10039.2	9904.8	9252.5	8323.0	7329.2	6508.9	5937.8	5484.3	5366.7	5243.5	5246.3
15°	10274.3	10050.4	9076.1	7760.3	6556.5	5582.3	5028.0	4756.4	4720.0	4734.0	4731.2
17.5°	10487.1	10153.9	8807.4	7133.2	5655.1	4787.2	4493.3	4512.9	4610.8	4680.8	4689.2
20°	10702.6	10215.5	8407.0	6293.4	4804.0	4305.7	4316.9	4470.9	4619.2	4714.4	4728.4
22.5°	10907.0	10243.5	7936.7	5481.5	4188.1	4101.3	4266.5	4431.7	4577.2	4669.6	4683.6
25°	11041.4	10179.1	7270.4	4633.2	3885.8	4028.5	4202.1	4342.1	4465.3	4560.5	4582.8
27.5°	11077.8	9972.0	6444.5	3947.4	3745.8	3958.6	4118.1	4221.7	4316.9	4406.5	4423.3
30°	11058.2	9666.8	5537.5	3544.2	3664.6	3877.4	4000.5	4076.1	4190.9	4260.9	4274.9
32.5°	11027.4	9311.3	4591.2	3328.7	3597.4	3801.8	3874.6	3941.8	3939.0	3911.0	3930.6
35°	11038.6	8885.7	3824.2	3199.9	3538.6	3745.8	3807.4	3723.4	3482.6	3471.4	3460.2
37.5°	11097.4	8465.8	3267.1	3110.3	3507.8	3737.4	3771.0	3384.6	3171.9	3073.9	3048.7
40°	11248.6	7975.9	2900.3	3043.1	3505.0	3801.8	3605.8	3213.9	2805.1	2614.8	2600.8
42.5°	11450.1	7494.4	2676.4	3001.1	3538.6	3899.8	3538.6	2973.1	2528.0	2416.0	2399.2
45°	11749.7	6942.9	2553.2	2981.5	3589.0	3936.2	3516.2	2796.7	2416.0	2326.4	2326.4
47.5°	12088.4	6416.5	2486.0	2967.5	3653.4	3911.0	3317.5	2740.8	2362.8	2374.0	2427.2
50°	12424.4	5960.2	2435.6	2936.7	3709.4	3897.0	3236.3	2738.0	2376.8	2519.6	2614.8
52.5°	12813.5	5638.3	2374.0	2886.3	3709.4	3807.4	3211.1	2793.9	2416.0	2458.0	2500.0
55°	13283.8	5537.5	2295.6	2777.1	3642.2	3583.4	3197.1	2875.1	2444.0	2346.0	2362.8
57.5°	13905.3	5699.9	2220.0	2640.0	3488.2	3351.1	3191.5	2897.5	2379.6	2298.4	2281.6
60°	14627.6	6021.8	2197.6	2500.0	3278.3	3152.3	3157.9	2833.1	2290.0	2206.0	2220.0
62.5°	15134.3	6215.0	2183.6	2393.6	3048.7	2933.9	3076.7	2754.7	2250.8	2178.0	2192.0
65°	15134.3	5979.8	2054.9	2231.2	2751.9	2670.8	2978.7	2656.8	2200.4	2116.5	2102.5
67.5°	14560.4	5293.9	1858.9	1987.7	2424.4	2371.2	2841.5	2539.2	2124.9	2060.5	2026.9
70°	13065.5	4014.5	1612.5	1702.1	2010.1	2057.7	2665.2	2379.6	1998.9	1920.5	1870.1
71°	12407.6	3496.6	1509.0	1556.5	1850.5	1920.5	2581.2	2312.4	1942.9	1830.9	1741.3
72.5°	11139.4	2945.1	1352.2	1371.8	1581.7	1707.7	2404.8	2183.6	1836.5	1676.9	1576.1
75°	8463.0	2150.0	1089.0	1077.8	1170.2	1355.0	2035.3	1945.7	1609.7	1394.2	1335.4
77.5°	3656.2	1170.2	814.7	823.1	795.1	1027.4	1601.3	1671.3	1380.2	1133.8	1080.6
80°	1108.6	674.7	557.1	568.3	531.9	688.7	1128.2	1310.2	1108.6	881.9	809.1
82.5°	568.3	403.1	380.7	375.1	338.7	389.1	683.1	895.9	792.3	551.5	487.1
85°	246.4	215.6	187.6	182.0	159.6	140.0	243.6	447.9	419.9	307.9	294.0
87.5°	61.6	56.0	36.4	33.6	19.6	2.8	0.0	0.0	0.0	0.0	0.0
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)