

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: P533018

Luminaire Tested: **GALN-SA8B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30890 lumens
Efficiency: N/A
Efficacy: 95.0 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): 325
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

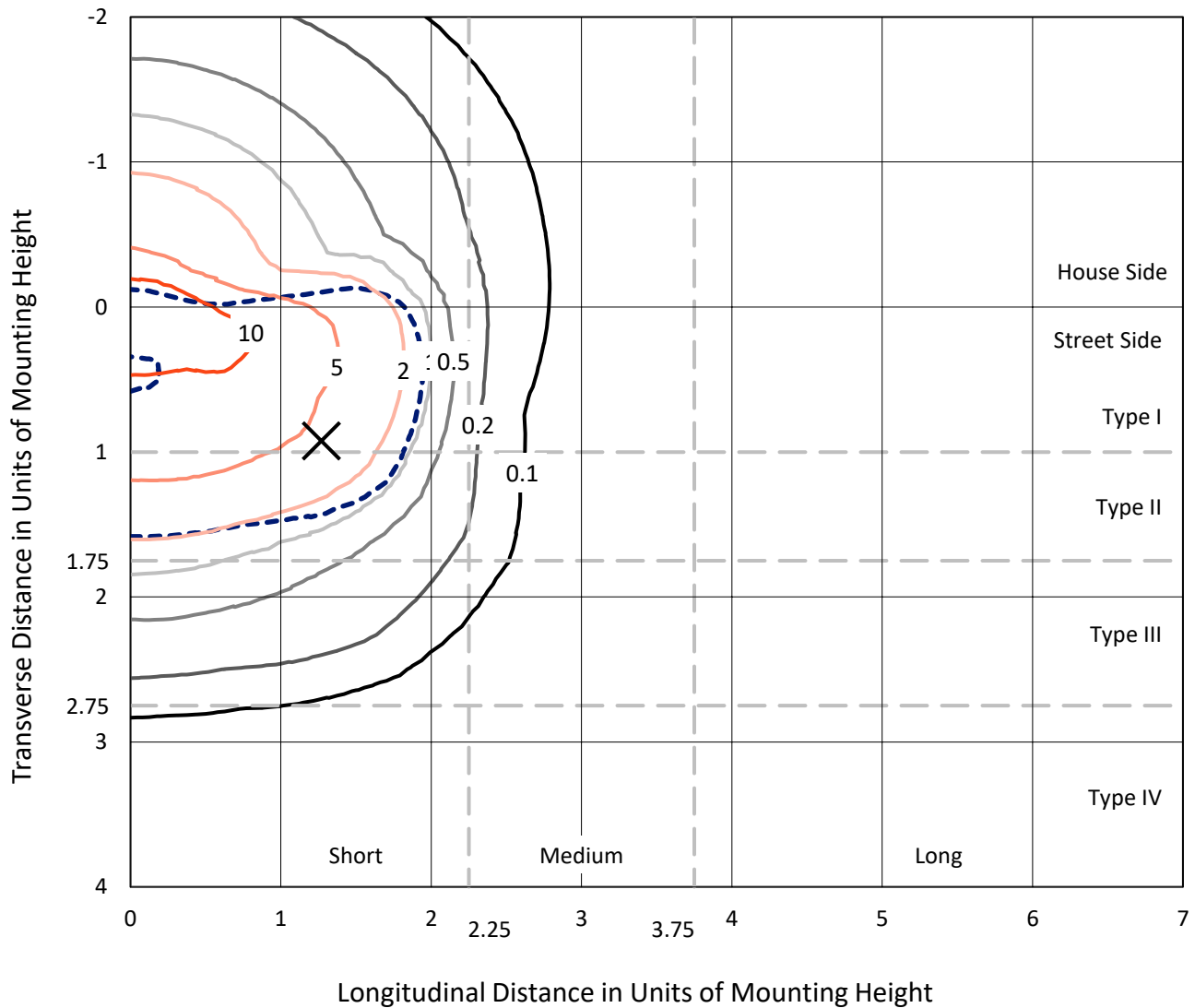


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

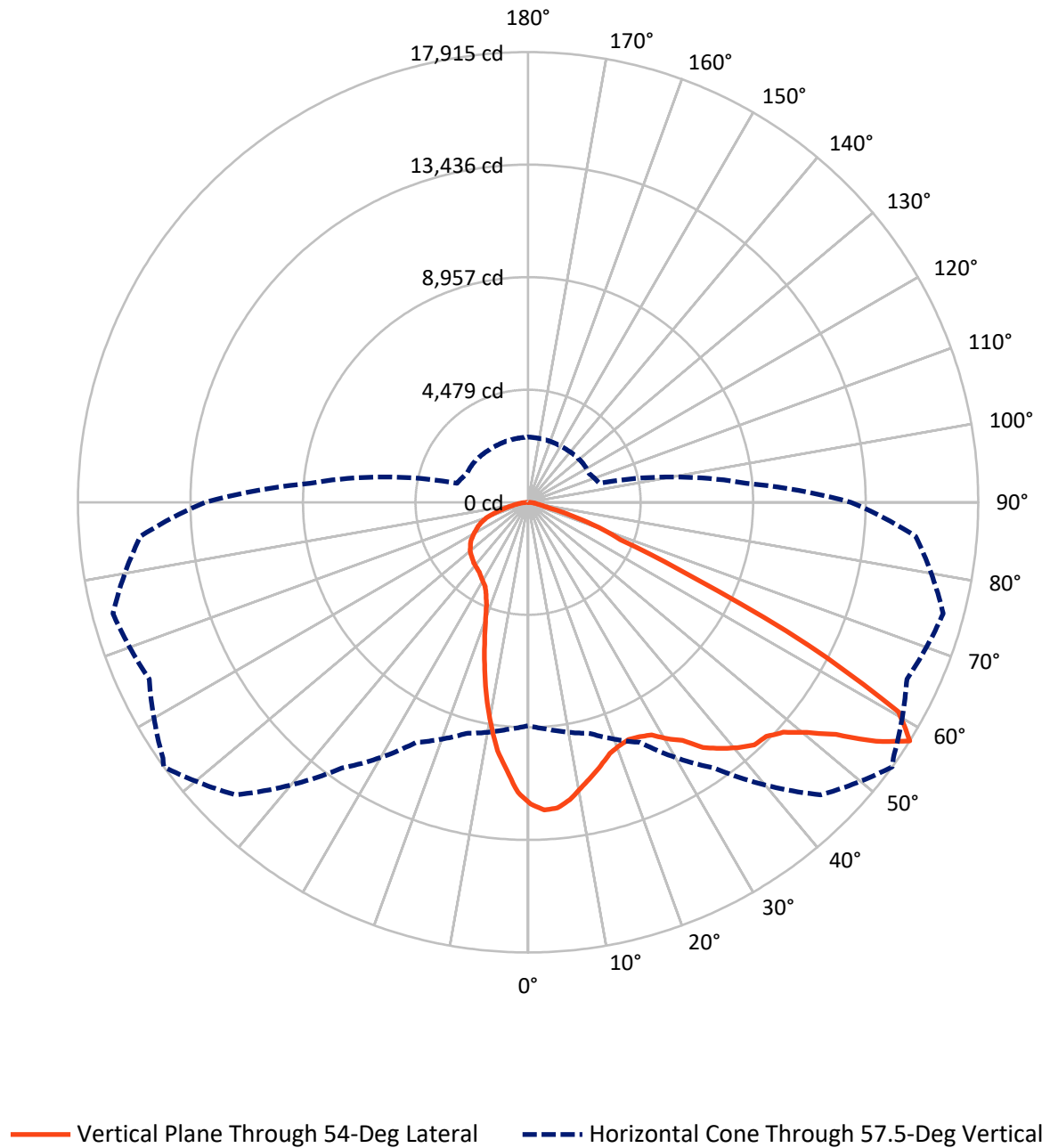


Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8545.9	0.0	8545.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	22344.1	0.0	22344.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	30890.0	0.0	30890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.5	3.4
10°-20°	2397.4	7.8
20°-30°	3368.4	10.9
30°-40°	4709.1	15.2
40°-50°	6375.2	20.6
50°-60°	7765.3	25.1
60°-70°	4044.5	13.1
70°-80°	1036.4	3.4
80°-90°	158.1	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°	30890.0	100.0
0°-180°	30890.0	100.0

Coefficient of Utilization



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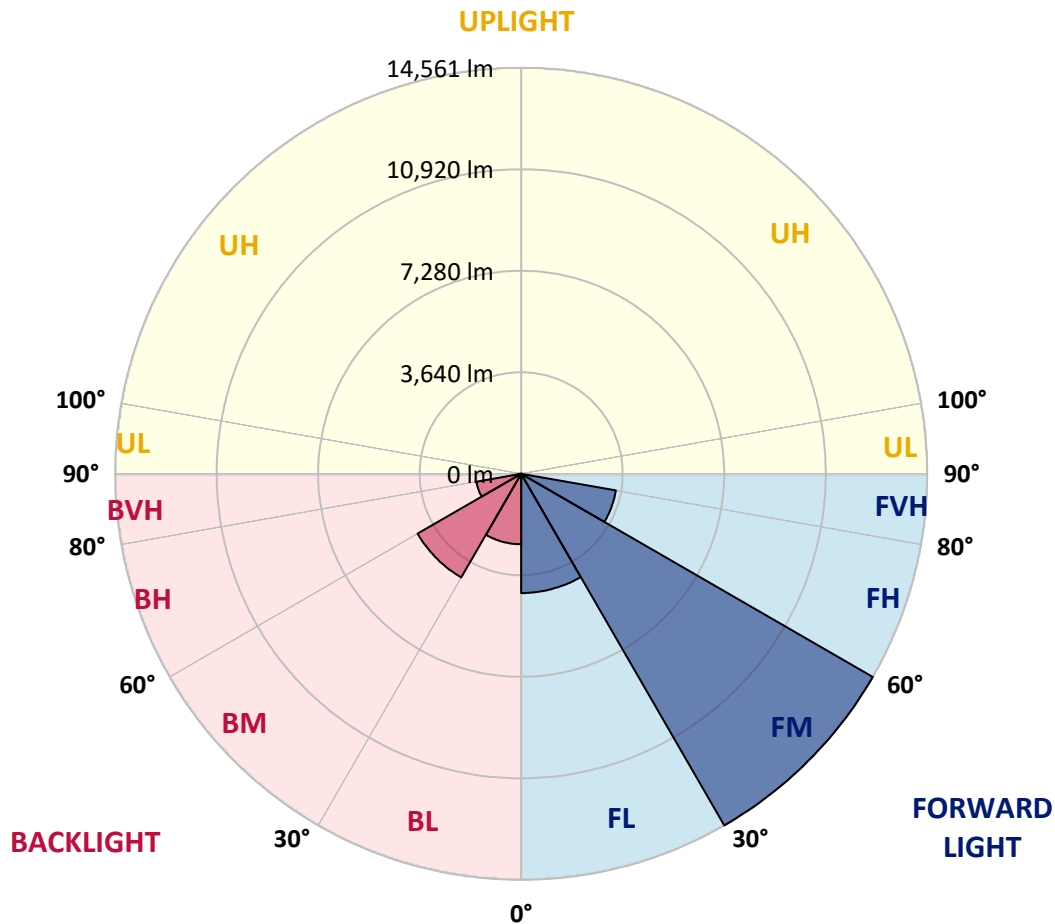
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4275.6	13.8			
FM	(30°-60°)	14560.6	47.1			
FH	(60°-80°)	3448.2	11.2			G2/5000
FVH	(80°-90°)	59.7	0.2			G1/100
BL	(0°-30°)	2525.8	8.2	B4/5000		
BM	(30°-60°)	4289.1	13.9	B3/5000		
BH	(60°-80°)	1632.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	98.4	0.3			G1/100
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°	54°	55°	65°	75°	85°
0°	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6
2.5°	12348.0	12300.4	12308.3	12371.9	12292.5	12260.7	12260.7	12105.9	12117.8	12010.6	11982.8
5°	12062.2	11951.0	12026.4	12121.7	12137.6	12169.4	12221.0	12181.3	12070.1	11955.0	11768.4
7.5°	11315.7	11415.0	11442.8	11510.3	11653.2	11784.2	11947.0	11835.9	11831.9	11716.7	11605.6
10°	10660.6	10601.1	10751.9	10851.2	11089.4	11307.8	11557.9	11546.0	11605.6	11474.6	11284.0
12.5°	10009.5	9961.8	10033.3	10259.6	10593.1	10910.7	11208.5	11097.4	11415.0	11391.2	10982.2
15°	9318.6	9354.3	9457.6	9668.0	10104.8	10485.9	10863.1	10867.1	11149.0	11244.3	10696.3
17.5°	8834.2	8794.5	8925.5	9239.2	9628.3	10084.9	10513.7	10601.1	11033.8	11089.4	10609.0
20°	8472.9	8528.5	8699.2	8858.0	9306.7	9858.6	10343.0	10374.7	11010.0	11160.9	10470.0
22.5°	8385.6	8353.8	8409.4	8667.5	9036.7	9636.2	10251.7	10370.8	11006.0	11137.1	10208.0
25°	8294.2	8397.5	8393.5	8651.6	8921.6	9457.6	10327.1	10458.1	11216.5	11260.1	10243.7
27.5°	8500.7	8488.8	8600.0	8619.8	8953.3	9505.2	10485.9	10585.2	11565.9	11530.1	10271.5
30°	8707.2	8647.6	8715.1	8949.4	9104.2	9779.2	10922.7	10914.7	12018.5	11994.7	10358.9
32.5°	8961.3	8933.5	8977.1	9183.6	9445.7	10144.5	11291.9	11526.2	12479.1	12629.9	10660.6
35°	9008.9	9124.1	9227.3	9505.2	9878.4	10736.1	11986.7	12181.3	13011.1	13483.6	11236.3
37.5°	9310.7	9354.3	9596.5	10088.9	10430.3	11526.2	12427.5	12550.5	13495.5	14031.5	11843.8
40°	9632.3	9683.9	10049.2	10565.3	11033.8	12042.3	12840.4	12880.1	13650.3	14452.4	12240.8
42.5°	10069.0	10116.7	10478.0	11125.2	11752.5	12483.0	13205.7	13249.3	13638.4	14936.8	12872.1
45°	10521.6	10636.8	11061.6	11796.2	12360.0	12999.2	13289.0	13467.7	13749.6	15369.5	13384.3
47.5°	11156.9	11264.1	11613.5	12332.2	12991.3	13451.8	13674.2	13848.9	14015.6	15746.7	13713.9
50°	11831.9	11851.7	12276.6	12927.7	13412.1	13964.0	14392.8	14452.4	14365.0	16183.5	14273.7
52.5°	12328.2	12391.7	12721.3	13356.5	14079.2	14758.1	15345.7	15409.3	15238.5	16346.3	14464.3
55°	11506.3	11470.6	12006.6	12852.3	14527.8	15941.3	16794.9	16842.6	15873.8	16850.5	15087.6
57.5°	8893.8	9064.5	9521.1	10541.5	12907.9	16465.4	17914.6	17743.9	16636.1	17104.6	15484.7
60°	6463.9	6424.2	6729.9	7412.8	9727.6	14190.3	16937.9	17112.6	16012.8	15417.2	12768.9
62.5°	5264.8	5209.2	5233.0	5256.9	6277.3	9417.9	12538.6	12534.7	12332.2	11081.5	8611.9
65°	4208.7	4339.7	4351.6	4530.3	4661.3	5626.1	7265.9	7655.0	6666.4	5467.3	3966.5
67.5°	3172.4	3124.7	3283.5	3918.8	4165.0	4061.8	3966.5	4010.1	2850.8	2056.7	1937.6
70°	1870.1	1850.2	2040.8	2731.7	3430.5	3228.0	2989.7	2993.7	1957.4	1437.3	1600.1
72.5°	1024.4	1020.4	1060.1	1385.7	1949.5	2024.9	1794.6	1850.2	1167.3	1163.3	1250.7
75°	571.7	559.8	547.9	611.4	702.8	742.5	758.4	766.3	802.0	897.3	933.1
77.5°	210.4	202.5	202.5	234.3	297.8	373.2	472.5	480.4	567.8	651.2	686.9
80°	71.5	79.4	107.2	146.9	198.5	266.0	321.6	329.5	401.0	456.6	468.5
82.5°	43.7	47.6	71.5	103.2	142.9	186.6	238.2	242.2	297.8	333.5	349.4
85°	19.9	23.8	39.7	63.5	91.3	123.1	127.1	127.1	123.1	127.1	119.1
87.5°	0.0	0.0	7.9	7.9	7.9	11.9	15.9	11.9	19.9	23.8	23.8
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°	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6	12006.6
2.5°	11899.4	11855.7	11720.7	11601.6	11565.9	11407.1	11172.8	11200.6	11029.9	11109.3	11025.9
5°	11736.6	11589.7	11244.3	11097.4	10712.2	10537.5	10418.4	10120.6	9981.7	9953.9	9834.8
7.5°	11319.7	11228.4	10795.6	10398.6	9989.6	9640.2	9191.6	8885.8	8667.5	8607.9	8433.2
10°	10990.2	10787.7	10188.1	9584.6	9001.0	8393.5	7809.8	7353.2	7130.9	6872.8	6785.5
12.5°	10664.6	10358.9	9548.9	8774.7	8020.3	7254.0	6547.2	5991.4	5507.0	5391.8	5352.1
15°	10462.1	9930.1	8977.1	8044.1	6972.1	5971.5	5264.8	4899.5	4601.7	4478.6	4566.0
17.5°	10196.1	9576.7	8429.2	7186.5	6007.3	5086.1	4494.5	4268.2	4161.0	4172.9	4137.2
20°	9862.6	9243.2	7710.6	6408.3	5145.7	4411.2	4073.7	3990.3	4006.2	4034.0	4022.0
22.5°	9624.3	8838.2	7190.5	5614.2	4446.9	4037.9	3899.0	3839.4	3891.0	3914.8	3895.0
25°	9441.7	8492.8	6559.2	4911.4	4041.9	3827.5	3764.0	3760.0	3839.4	3871.2	3851.3
27.5°	9274.9	8171.2	5931.8	4375.4	3771.9	3664.7	3644.9	3692.5	3744.1	3775.9	3803.7
30°	9175.7	7925.0	5344.2	3926.8	3636.9	3585.3	3549.6	3593.2	3621.0	3652.8	3636.9
32.5°	9271.0	7750.3	4776.4	3672.7	3525.7	3474.1	3521.8	3494.0	3541.6	3569.4	3525.7
35°	9568.7	7595.4	4371.4	3537.7	3398.7	3418.5	3426.5	3414.6	3434.4	3410.6	3462.2
37.5°	9862.6	7539.9	3998.2	3422.5	3339.1	3339.1	3331.2	3307.4	3347.1	3339.1	3363.0
40°	10235.8	7575.6	3680.6	3299.4	3283.5	3275.6	3243.8	3239.9	3224.0	3228.0	3235.9
42.5°	10561.4	7655.0	3498.0	3220.0	3231.9	3247.8	3188.3	3140.6	3160.5	3120.8	3120.8
45°	10906.8	7726.5	3335.2	3164.4	3152.5	3148.6	3100.9	3073.1	3057.2	3061.2	3096.9
47.5°	11450.7	7829.7	3212.1	3089.0	3096.9	3037.4	3025.5	2989.7	3005.6	3029.4	3033.4
50°	11835.9	8048.1	3116.8	3001.6	3029.4	2989.7	2918.3	2902.4	2902.4	2942.1	2934.1
52.5°	12105.9	8353.8	3025.5	2906.4	2918.3	2886.5	2862.7	2826.9	2803.1	2858.7	2886.5
55°	12931.7	8862.0	3001.6	2826.9	2823.0	2791.2	2747.5	2711.8	2699.9	2707.8	2763.4
57.5°	12852.3	8703.2	2926.2	2688.0	2680.0	2636.4	2592.7	2580.8	2576.8	2584.8	2600.6
60°	10434.3	6428.1	2612.5	2529.2	2517.3	2509.3	2465.6	2418.0	2394.2	2418.0	2398.1
62.5°	6904.6	4303.9	2302.9	2338.6	2346.5	2326.7	2255.2	2207.6	2215.5	2243.3	2199.6
65°	3390.7	2529.2	2088.4	2183.7	2191.7	2136.1	2068.6	2013.0	1985.2	2009.0	1989.2
67.5°	1937.6	1933.6	1913.7	2013.0	2009.0	1953.5	1846.3	1798.6	1751.0	1758.9	1747.0
70°	1643.8	1675.5	1715.2	1774.8	1770.8	1707.3	1580.2	1544.5	1477.0	1469.1	1449.2
72.5°	1294.4	1349.9	1437.3	1481.0	1445.2	1365.8	1282.4	1222.9	1163.3	1127.6	1139.5
75°	960.8	1040.3	1087.9	1115.7	1060.1	1016.4	948.9	877.5	806.0	774.2	762.3
77.5°	698.8	722.6	766.3	786.1	750.4	706.7	667.0	595.6	528.1	484.4	472.5
80°	488.4	504.2	536.0	536.0	536.0	516.2	464.5	393.1	349.4	309.7	301.8
82.5°	341.5	357.3	389.1	373.2	369.3	345.4	313.7	258.1	210.4	182.6	174.7
85°	119.1	131.0	158.8	190.6	202.5	198.5	178.7	142.9	111.2	91.3	83.4
87.5°	27.8	27.8	31.8	27.8	27.8	31.8	27.8	27.8	27.8	19.9	15.9
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)