

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: P531614

Luminaire Tested: **GALN-SA6D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531614
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-SA6D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 30839 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 368
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



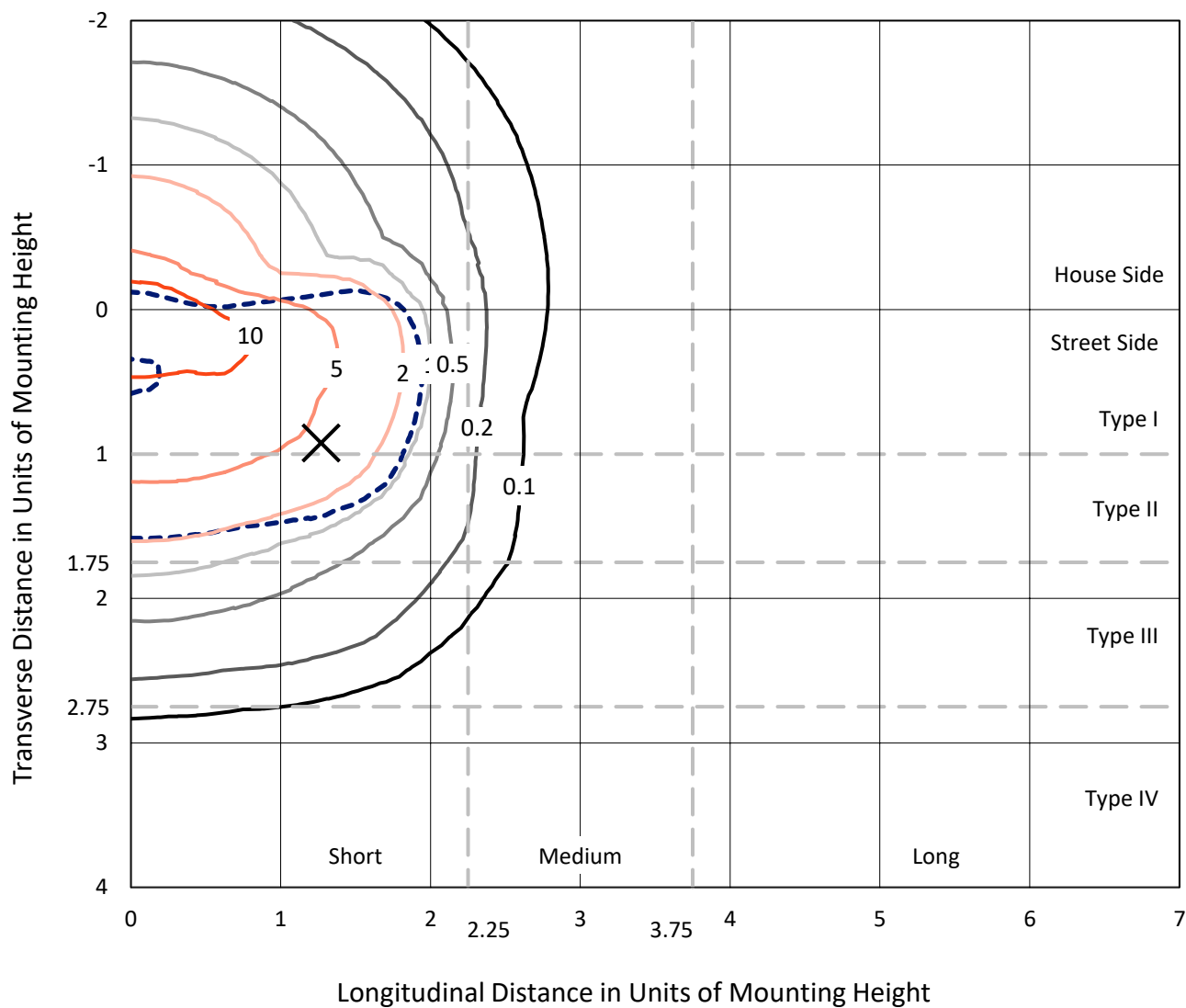
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

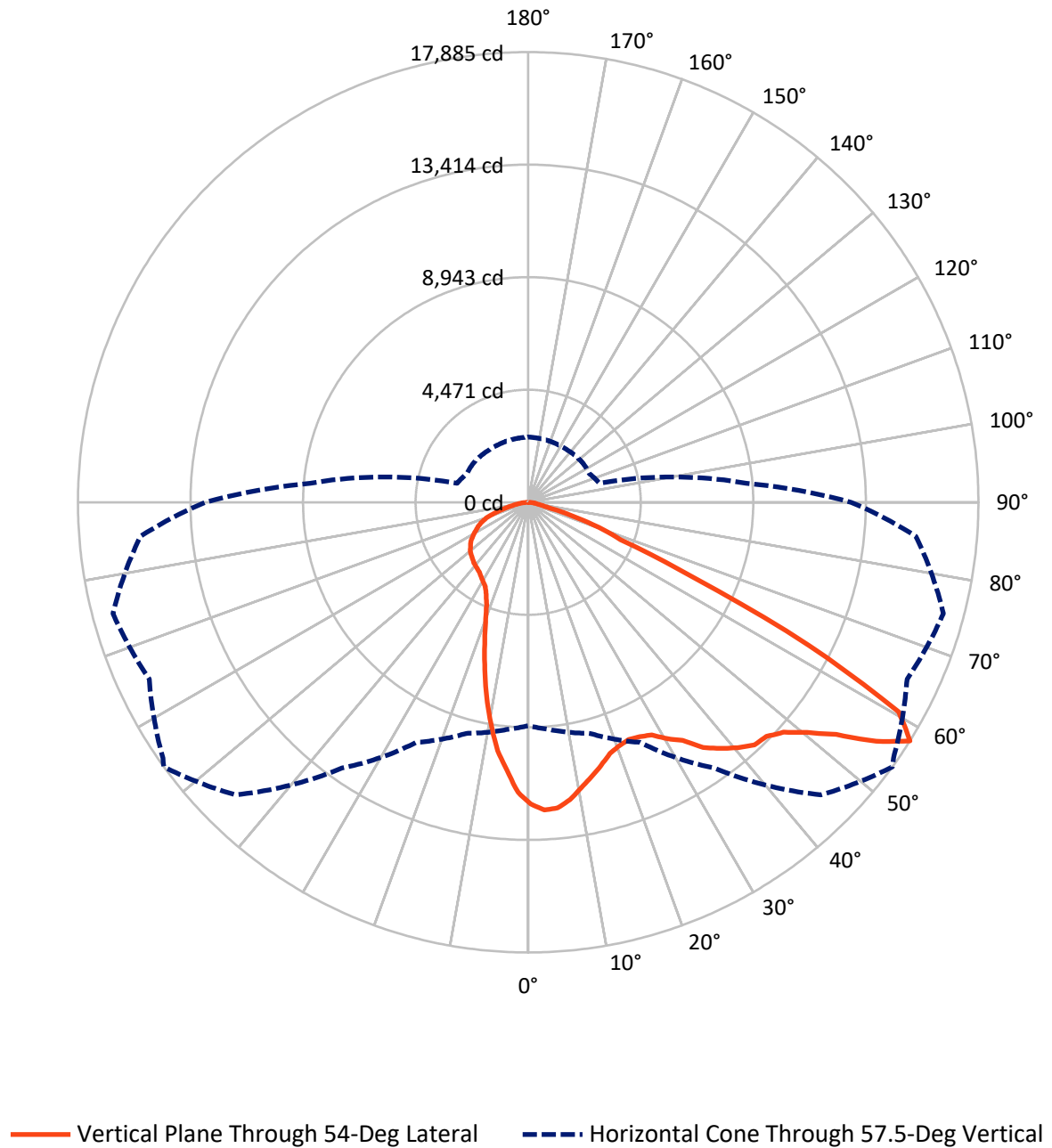


Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8531.8	0.0	8531.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	22307.2	0.0	22307.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	30839.0	0.0	30839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1033.7	3.4
10°-20°	2393.5	7.8
20°-30°	3362.9	10.9
30°-40°	4701.3	15.2
40°-50°	6364.7	20.6
50°-60°	7752.5	25.1
60°-70°	4037.8	13.1
70°-80°	1034.6	3.4
80°-90°	157.8	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°	30839.0	100.0
0°-180°	30839.0	100.0

Coefficient of Utilization



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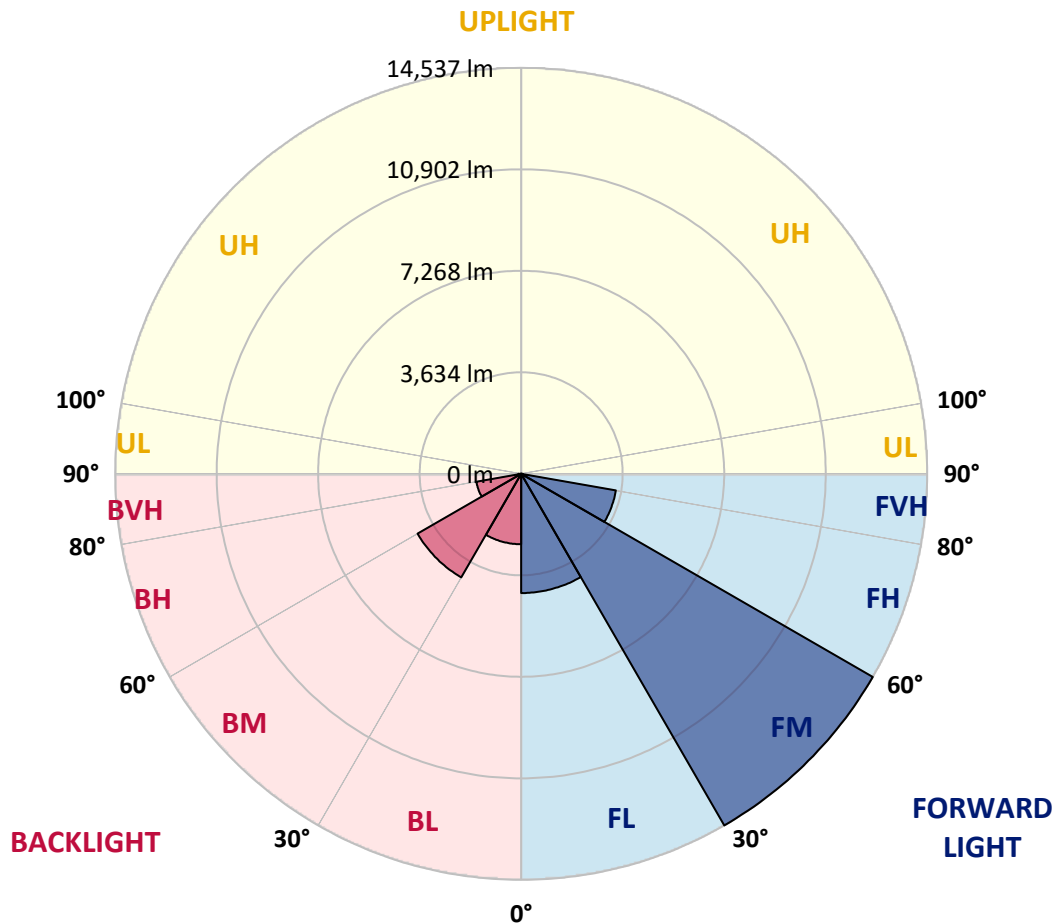
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4268.5	13.8			
FM	(30°-60°)	14536.6	47.1			
FH	(60°-80°)	3442.5	11.2			G2/5000
FVH	(80°-90°)	59.6	0.2			G1/100
BL	(0°-30°)	2521.6	8.2	B4/5000		
BM	(30°-60°)	4282.0	13.9	B3/5000		
BH	(60°-80°)	1630.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	98.2	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°	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8
2.5°	12327.7	12280.1	12288.0	12351.4	12272.2	12240.5	12240.5	12085.9	12097.8	11990.7	11963.0
5°	12042.3	11931.3	12006.6	12101.7	12117.6	12149.3	12200.8	12161.2	12050.2	11935.2	11748.9
7.5°	11297.1	11396.1	11423.9	11491.3	11634.0	11764.8	11927.3	11816.3	11812.4	11697.4	11586.4
10°	10643.0	10583.6	10734.2	10833.3	11071.1	11289.1	11538.8	11527.0	11586.4	11455.6	11265.3
12.5°	9992.9	9945.4	10016.7	10242.7	10575.6	10892.7	11190.0	11079.0	11396.1	11372.4	10964.1
15°	9303.2	9338.9	9442.0	9652.0	10088.1	10468.6	10845.2	10849.1	11130.6	11225.7	10678.7
17.5°	8819.6	8780.0	8910.8	9223.9	9612.4	10068.2	10496.3	10583.6	11015.6	11071.1	10591.5
20°	8458.9	8514.4	8684.9	8843.4	9291.3	9842.3	10325.9	10357.6	10991.8	11142.5	10452.7
22.5°	8371.7	8340.0	8395.5	8653.1	9021.8	9620.3	10234.7	10353.6	10987.9	11118.7	10191.1
25°	8280.5	8383.6	8379.6	8637.3	8906.8	9442.0	10310.0	10440.9	11198.0	11241.6	10226.8
27.5°	8486.7	8474.8	8585.8	8605.6	8938.5	9489.5	10468.6	10567.7	11546.8	11511.1	10254.6
30°	8692.8	8633.3	8700.7	8934.6	9089.2	9763.0	10904.6	10896.7	11998.7	11974.9	10341.8
32.5°	8946.5	8918.7	8962.3	9168.4	9430.1	10127.7	11273.3	11507.1	12458.5	12609.1	10643.0
35°	8994.0	9109.0	9212.1	9489.5	9862.1	10718.3	11966.9	12161.2	12989.6	13461.3	11217.8
37.5°	9295.3	9338.9	9580.7	10072.2	10413.1	11507.1	12406.9	12529.8	13473.2	14008.3	11824.2
40°	9616.4	9667.9	10032.6	10547.9	11015.6	12022.4	12819.2	12858.8	13627.8	14428.5	12220.6
42.5°	10052.4	10100.0	10460.7	11106.8	11733.1	12462.4	13183.9	13227.5	13615.9	14912.1	12850.9
45°	10504.3	10619.2	11043.4	11776.7	12339.6	12977.7	13267.1	13445.5	13726.9	15344.2	13362.2
47.5°	11138.5	11245.5	11594.3	12311.8	12969.8	13429.6	13651.6	13826.0	13992.5	15720.7	13691.2
50°	11812.4	11832.2	12256.3	12906.4	13390.0	13941.0	14369.1	14428.5	14341.3	16156.8	14250.1
52.5°	12307.8	12371.3	12700.3	13334.5	14055.9	14733.7	15320.4	15383.8	15213.4	16319.3	14440.4
55°	11487.3	11451.6	11986.8	12831.1	14503.8	15915.0	16767.2	16814.8	15847.6	16822.7	15062.7
57.5°	8879.1	9049.5	9505.4	10524.1	12886.6	16438.2	17885.0	17714.6	16608.6	17076.4	15459.1
60°	6453.2	6413.6	6718.8	7400.6	9711.5	14166.9	16909.9	17084.3	15986.3	15391.7	12747.8
62.5°	5256.1	5200.6	5224.4	5248.2	6266.9	9402.3	12517.9	12514.0	12311.8	11063.2	8597.7
65°	4201.7	4332.5	4344.4	4522.8	4653.6	5616.8	7253.9	7642.4	6655.4	5458.3	3959.9
67.5°	3167.1	3119.6	3278.1	3912.3	4158.1	4055.0	3959.9	4003.5	2846.1	2053.3	1934.4
70°	1867.0	1847.2	2037.4	2727.1	3424.8	3222.6	2984.8	2988.8	1954.2	1434.9	1597.4
72.5°	1022.7	1018.7	1058.4	1383.4	1946.3	2021.6	1791.7	1847.2	1165.4	1161.4	1248.6
75°	570.8	558.9	547.0	610.4	701.6	741.2	757.1	765.0	800.7	895.8	931.5
77.5°	210.1	202.2	202.2	233.9	297.3	372.6	471.7	479.6	566.8	650.1	685.8
80°	71.3	79.3	107.0	146.7	198.2	265.6	321.1	329.0	400.4	455.8	467.7
82.5°	43.6	47.6	71.3	103.1	142.7	186.3	237.8	241.8	297.3	333.0	348.8
85°	19.8	23.8	39.6	63.4	91.2	122.9	126.8	126.8	122.9	126.8	118.9
87.5°	0.0	0.0	7.9	7.9	7.9	11.9	15.9	11.9	19.8	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°	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8	11986.8
2.5°	11879.7	11836.1	11701.4	11582.5	11546.8	11388.2	11154.4	11182.1	11011.7	11090.9	11007.7
5°	11717.2	11570.6	11225.7	11079.0	10694.5	10520.1	10401.2	10103.9	9965.2	9937.4	9818.5
7.5°	11301.0	11209.8	10777.8	10381.4	9973.1	9624.3	9176.4	8871.2	8653.1	8593.7	8419.3
10°	10972.0	10769.9	10171.3	9568.8	8986.1	8379.6	7796.9	7341.1	7119.1	6861.5	6774.3
12.5°	10647.0	10341.8	9533.1	8760.2	8007.0	7242.0	6536.4	5981.5	5497.9	5382.9	5343.3
15°	10444.8	9913.7	8962.3	8030.8	6960.6	5961.7	5256.1	4891.4	4594.1	4471.3	4558.5
17.5°	10179.2	9560.9	8415.3	7174.6	5997.3	5077.7	4487.1	4261.2	4154.1	4166.0	4130.4
20°	9846.3	9227.9	7697.9	6397.7	5137.2	4403.9	4066.9	3983.7	3999.6	4027.3	4015.4
22.5°	9608.4	8823.6	7178.6	5604.9	4439.5	4031.3	3892.5	3833.1	3884.6	3908.4	3888.6
25°	9426.1	8478.7	6548.3	4903.3	4035.2	3821.2	3757.8	3753.8	3833.1	3864.8	3845.0
27.5°	9259.6	8157.7	5922.0	4368.2	3765.7	3658.7	3638.8	3686.4	3737.9	3769.6	3797.4
30°	9160.5	7911.9	5335.4	3920.3	3630.9	3579.4	3543.7	3587.3	3615.1	3646.8	3630.9
32.5°	9255.7	7737.5	4768.5	3666.6	3519.9	3468.4	3516.0	3488.2	3535.8	3563.5	3519.9
35°	9552.9	7582.9	4364.2	3531.8	3393.1	3412.9	3420.8	3408.9	3428.8	3405.0	3456.5
37.5°	9846.3	7527.4	3991.6	3416.9	3333.6	3333.6	3325.7	3301.9	3341.5	3333.6	3357.4
40°	10218.9	7563.1	3674.5	3294.0	3278.1	3270.2	3238.5	3234.5	3218.7	3222.6	3230.6
42.5°	10543.9	7642.4	3492.2	3214.7	3226.6	3242.5	3183.0	3135.4	3155.2	3115.6	3115.6
45°	10888.8	7713.7	3329.7	3159.2	3147.3	3143.4	3095.8	3068.0	3052.2	3056.1	3091.8
47.5°	11431.8	7816.8	3206.8	3083.9	3091.8	3032.4	3020.5	2984.8	3000.7	3024.4	3028.4
50°	11816.3	8034.8	3111.6	2996.7	3024.4	2984.8	2913.5	2897.6	2897.6	2937.2	2929.3
52.5°	12085.9	8340.0	3020.5	2901.6	2913.5	2881.7	2858.0	2822.3	2798.5	2854.0	2881.7
55°	12910.3	8847.4	2996.7	2822.3	2818.3	2786.6	2743.0	2707.3	2695.4	2703.4	2758.9
57.5°	12831.1	8688.8	2921.4	2683.5	2675.6	2632.0	2588.4	2576.5	2572.6	2580.5	2596.3
60°	10417.1	6417.5	2608.2	2525.0	2513.1	2505.2	2461.6	2414.0	2390.2	2414.0	2394.2
62.5°	6893.2	4296.8	2299.0	2334.7	2342.7	2322.8	2251.5	2203.9	2211.8	2239.6	2196.0
65°	3385.2	2525.0	2085.0	2180.1	2188.1	2132.6	2065.2	2009.7	1981.9	2005.7	1985.9
67.5°	1934.4	1930.4	1910.6	2009.7	2005.7	1950.2	1843.2	1795.6	1748.1	1756.0	1744.1
70°	1641.0	1672.8	1712.4	1771.9	1767.9	1704.5	1577.6	1541.9	1474.6	1466.6	1446.8
72.5°	1292.2	1347.7	1434.9	1478.5	1442.9	1363.6	1280.3	1220.9	1161.4	1125.7	1137.6
75°	959.3	1038.5	1086.1	1113.8	1058.4	1014.8	947.4	876.0	804.7	773.0	761.1
77.5°	697.6	721.4	765.0	784.8	749.2	705.6	665.9	594.6	527.2	483.6	471.7
80°	487.6	503.4	535.1	535.1	535.1	515.3	463.8	392.4	348.8	309.2	301.3
82.5°	340.9	356.7	388.5	372.6	368.6	344.9	313.1	257.7	210.1	182.3	174.4
85°	118.9	130.8	158.6	190.3	202.2	198.2	178.4	142.7	111.0	91.2	83.2
87.5°	27.7	27.7	31.7	27.7	27.7	31.7	27.7	27.7	27.7	19.8	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)