

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: P531146

Luminaire Tested: **GALN-SA6B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531146
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-SA6B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 22684 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 243
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

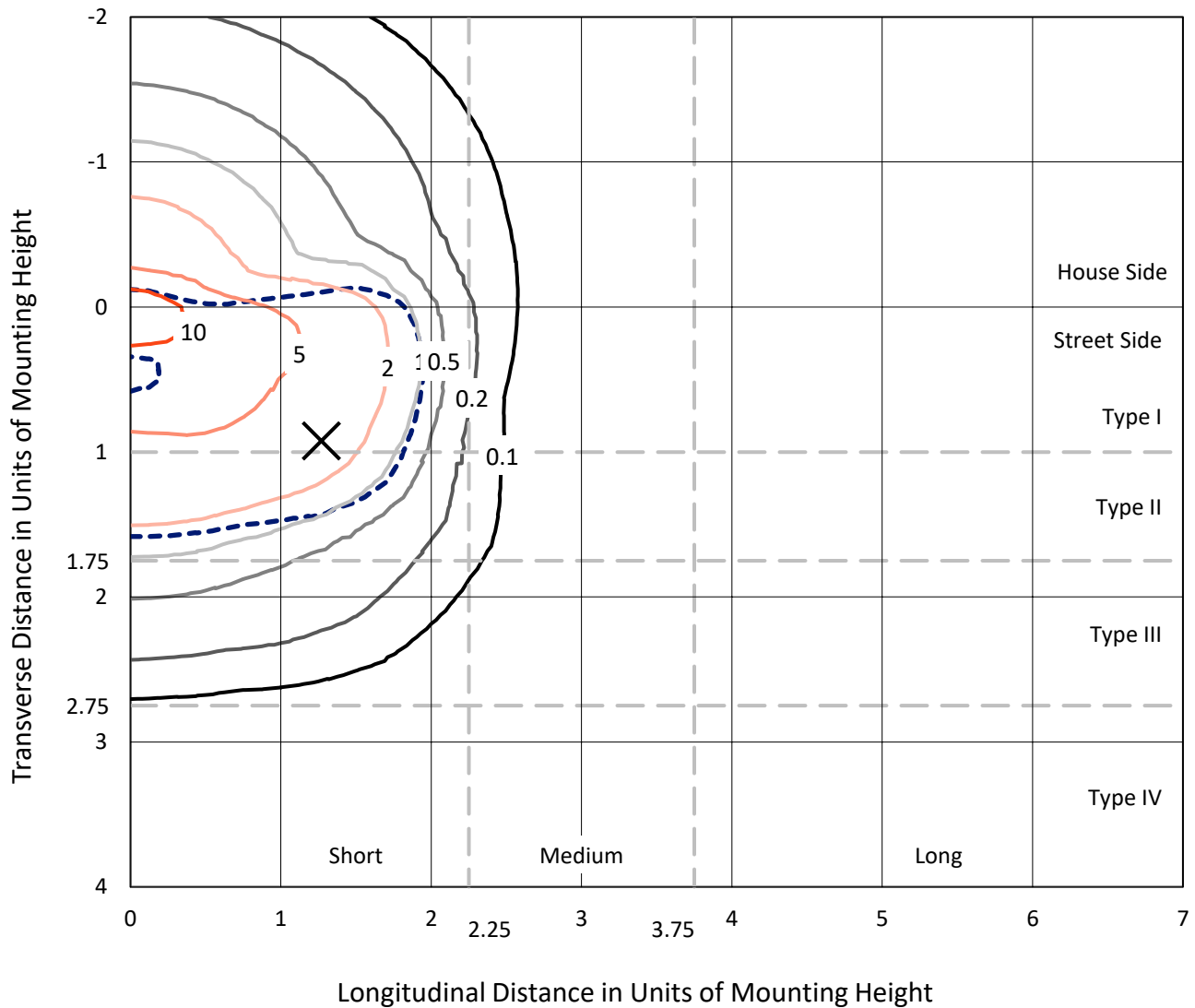


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

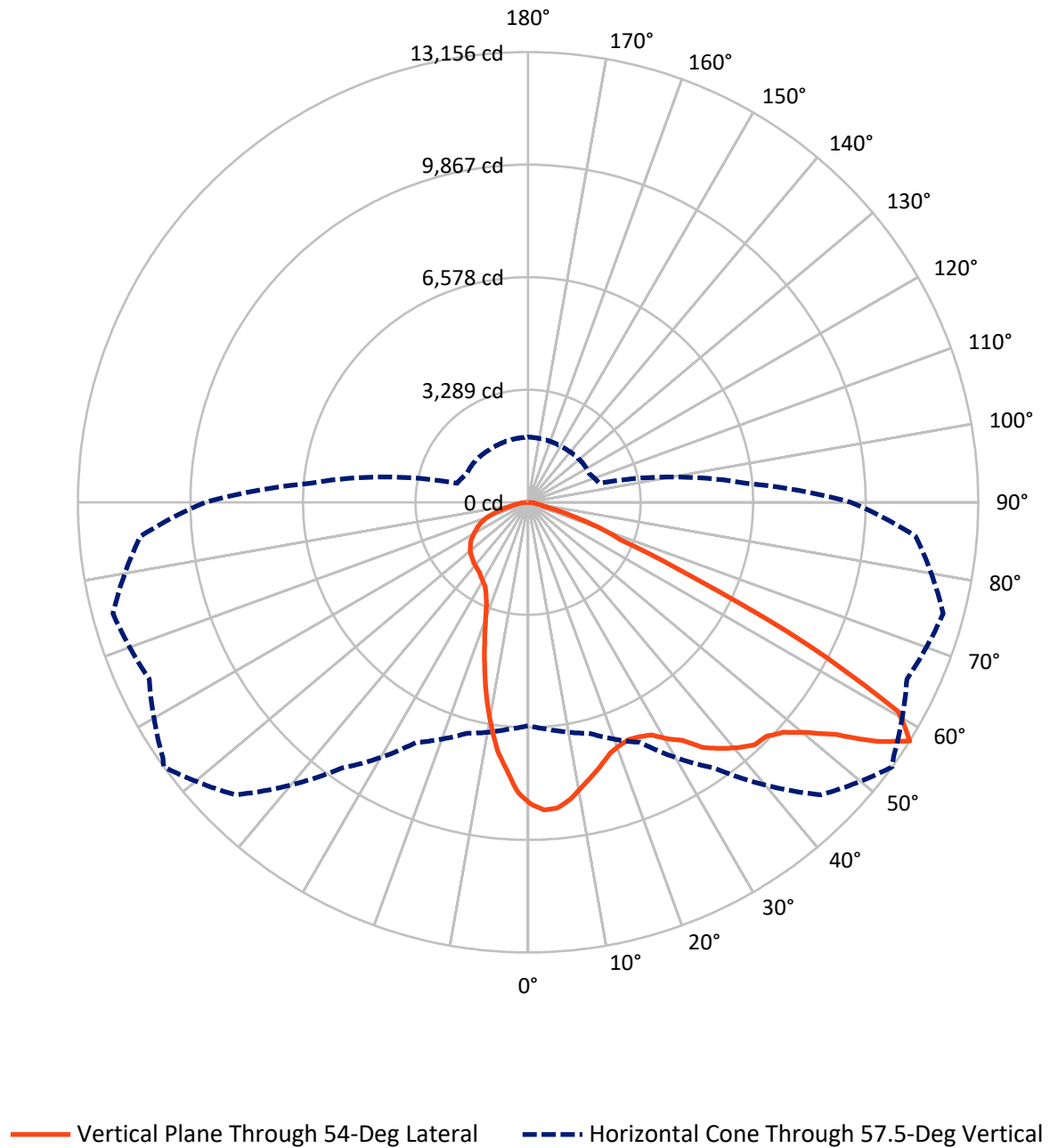


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6275.7	0.0	6275.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	16408.4	0.0	16408.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	22684.0	0.0	22684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.4	3.4
10°-20°	1760.6	7.8
20°-30°	2473.6	10.9
30°-40°	3458.1	15.2
40°-50°	4681.6	20.6
50°-60°	5702.4	25.1
60°-70°	2970.1	13.1
70°-80°	761.0	3.4
80°-90°	116.1	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°	22684.0	100.0
0°-180°	22684.0	100.0

Coefficient of Utilization



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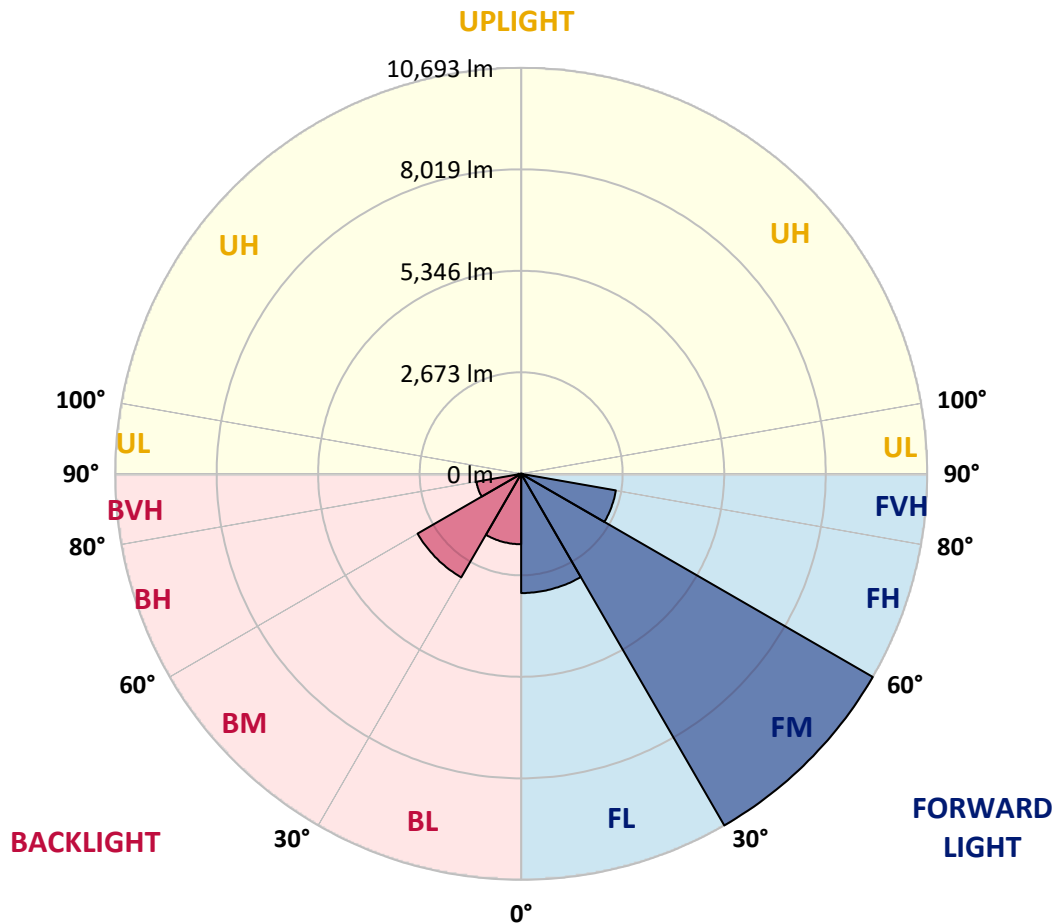
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3139.8	13.8			
FM	(30°-60°)	10692.5	47.1			
FH	(60°-80°)	2532.2	11.2			G2/5000
FVH	(80°-90°)	43.9	0.2			G1/100
BL	(0°-30°)	1854.8	8.2	B3/2500		
BM	(30°-60°)	3149.7	13.9	B3/5000		
BH	(60°-80°)	1199.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	72.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0
2.5°	9067.8	9032.8	9038.6	9085.3	9026.9	9003.6	9003.6	8889.9	8898.6	8819.9	8799.5
5°	8857.8	8776.2	8831.6	8901.6	8913.2	8936.6	8974.5	8945.3	8863.7	8779.1	8642.1
7.5°	8309.7	8382.6	8403.0	8452.6	8557.5	8653.7	8773.3	8691.6	8688.7	8604.2	8522.5
10°	7828.6	7784.9	7895.7	7968.5	8143.5	8303.9	8487.5	8478.8	8522.5	8426.3	8286.4
12.5°	7350.4	7315.4	7367.9	7534.1	7779.0	8012.3	8231.0	8149.3	8382.6	8365.1	8064.8
15°	6843.1	6869.3	6945.1	7099.7	7420.4	7700.3	7977.3	7980.2	8187.2	8257.2	7854.8
17.5°	6487.4	6458.2	6554.4	6784.8	7070.5	7405.8	7720.7	7784.9	8102.7	8143.5	7790.7
20°	6222.1	6262.9	6388.3	6504.9	6834.3	7239.6	7595.3	7618.7	8085.2	8196.0	7688.6
22.5°	6157.9	6134.6	6175.4	6364.9	6636.1	7076.4	7528.3	7615.8	8082.3	8178.5	7496.2
25°	6090.9	6166.7	6163.7	6353.3	6551.5	6945.1	7583.7	7679.9	8236.8	8268.9	7522.4
27.5°	6242.5	6233.7	6315.4	6329.9	6574.9	6980.1	7700.3	7773.2	8493.4	8467.1	7542.9
30°	6394.1	6350.3	6399.9	6571.9	6685.7	7181.3	8021.0	8015.2	8825.8	8808.3	7607.0
32.5°	6580.7	6560.3	6592.3	6744.0	6936.4	7449.6	8292.2	8464.2	9164.0	9274.8	7828.6
35°	6615.7	6700.2	6776.0	6980.1	7254.2	7884.0	8802.4	8945.3	9554.7	9901.6	8251.4
37.5°	6837.3	6869.3	7047.2	7408.7	7659.5	8464.2	9126.1	9216.5	9910.4	10304.0	8697.5
40°	7073.4	7111.3	7379.6	7758.6	8102.7	8843.3	9429.3	9458.5	10024.1	10613.1	8989.0
42.5°	7394.2	7429.1	7694.5	8169.7	8630.4	9166.9	9697.5	9729.6	10015.4	10968.8	9452.6
45°	7726.5	7811.1	8123.1	8662.5	9076.5	9545.9	9758.8	9890.0	10097.0	11286.6	9828.8
47.5°	8193.1	8271.8	8528.4	9056.1	9540.1	9878.3	10041.6	10169.9	10292.3	11563.6	10070.8
50°	8688.7	8703.3	9015.3	9493.4	9849.2	10254.4	10569.3	10613.1	10548.9	11884.3	10481.9
52.5°	9053.2	9099.8	9341.8	9808.3	10339.0	10837.6	11269.1	11315.7	11190.4	12003.8	10621.8
55°	8449.6	8423.4	8817.0	9438.1	10668.5	11706.4	12333.3	12368.3	11656.9	12374.1	11079.6
57.5°	6531.1	6656.5	6991.8	7741.1	9478.9	12091.3	13155.5	13030.2	12216.7	12560.7	11371.1
60°	4746.7	4717.6	4942.1	5443.6	7143.4	10420.6	12438.3	12566.6	11758.9	11321.6	9376.8
62.5°	3866.2	3825.4	3842.9	3860.4	4609.7	6916.0	9207.7	9204.8	9056.1	8137.7	6324.1
65°	3090.6	3186.8	3195.6	3326.8	3423.0	4131.5	5335.7	5621.4	4895.4	4014.9	2912.8
67.5°	2329.6	2294.6	2411.3	2877.8	3058.5	2982.7	2912.8	2944.8	2093.5	1510.3	1422.9
70°	1373.3	1358.7	1498.7	2006.0	2519.1	2370.4	2195.5	2198.4	1437.4	1055.5	1175.0
72.5°	752.2	749.3	778.5	1017.6	1431.6	1487.0	1317.9	1358.7	857.2	854.3	918.4
75°	419.9	411.1	402.4	449.0	516.1	545.2	556.9	562.7	589.0	658.9	685.2
77.5°	154.5	148.7	148.7	172.0	218.7	274.1	347.0	352.8	416.9	478.2	504.4
80°	52.5	58.3	78.7	107.9	145.8	195.4	236.2	242.0	294.5	335.3	344.1
82.5°	32.1	35.0	52.5	75.8	105.0	137.0	174.9	177.9	218.7	244.9	256.6
85°	14.6	17.5	29.2	46.7	67.1	90.4	93.3	93.3	90.4	93.3	87.5
87.5°	0.0	0.0	5.8	5.8	5.8	8.7	11.7	8.7	14.6	17.5	17.5
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°	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0	8817.0
2.5°	8738.3	8706.2	8607.1	8519.6	8493.4	8376.7	8204.7	8225.1	8099.8	8158.1	8096.8
5°	8618.7	8510.9	8257.2	8149.3	7866.5	7738.2	7650.7	7432.1	7330.0	7309.6	7222.1
7.5°	8312.6	8245.5	7927.7	7636.2	7335.8	7079.3	6749.8	6525.3	6364.9	6321.2	6192.9
10°	8070.6	7921.9	7481.6	7038.4	6609.8	6163.7	5735.1	5399.8	5236.6	5047.0	4982.9
12.5°	7831.5	7607.0	7012.2	6443.6	5889.7	5326.9	4808.0	4399.8	4044.0	3959.5	3930.3
15°	7682.8	7292.1	6592.3	5907.2	5119.9	4385.2	3866.2	3597.9	3379.3	3288.9	3353.0
17.5°	7487.5	7032.6	6190.0	5277.4	4411.4	3735.0	3300.5	3134.4	3055.6	3064.4	3038.1
20°	7242.5	6787.7	5662.2	4705.9	3778.7	3239.3	2991.5	2930.3	2941.9	2962.3	2953.6
22.5°	7067.6	6490.3	5280.3	4122.8	3265.6	2965.2	2863.2	2819.5	2857.4	2874.9	2860.3
25°	6933.5	6236.6	4816.7	3606.7	2968.2	2810.7	2764.1	2761.1	2819.5	2842.8	2828.2
27.5°	6811.0	6000.5	4356.0	3213.1	2769.9	2691.2	2676.6	2711.6	2749.5	2772.8	2793.2
30°	6738.1	5819.7	3924.5	2883.6	2670.8	2632.9	2606.6	2638.7	2659.1	2682.4	2670.8
32.5°	6808.1	5691.4	3507.6	2697.0	2589.1	2551.2	2586.2	2565.8	2600.8	2621.2	2589.1
35°	7026.8	5577.7	3210.2	2597.9	2495.8	2510.4	2516.2	2507.5	2522.1	2504.6	2542.5
37.5°	7242.5	5536.9	2936.1	2513.3	2452.1	2452.1	2446.3	2428.8	2457.9	2452.1	2469.6
40°	7516.6	5563.1	2702.8	2422.9	2411.3	2405.4	2382.1	2379.2	2367.5	2370.4	2376.3
42.5°	7755.7	5621.4	2568.7	2364.6	2373.4	2385.0	2341.3	2306.3	2320.9	2291.7	2291.7
45°	8009.4	5673.9	2449.2	2323.8	2315.0	2312.1	2277.1	2256.7	2245.1	2248.0	2274.2
47.5°	8408.8	5749.7	2358.8	2268.4	2274.2	2230.5	2221.7	2195.5	2207.2	2224.7	2227.6
50°	8691.6	5910.1	2288.8	2204.3	2224.7	2195.5	2143.0	2131.4	2131.4	2160.5	2154.7
52.5°	8889.9	6134.6	2221.7	2134.3	2143.0	2119.7	2102.2	2076.0	2058.5	2099.3	2119.7
55°	9496.4	6507.8	2204.3	2076.0	2073.0	2049.7	2017.6	1991.4	1982.7	1988.5	2029.3
57.5°	9438.1	6391.2	2148.9	1973.9	1968.1	1936.0	1903.9	1895.2	1892.3	1898.1	1909.8
60°	7662.4	4720.5	1918.5	1857.3	1848.5	1842.7	1810.6	1775.6	1758.2	1775.6	1761.1
62.5°	5070.4	3160.6	1691.1	1717.3	1723.2	1708.6	1656.1	1621.1	1626.9	1647.4	1615.3
65°	2490.0	1857.3	1533.6	1603.6	1609.5	1568.6	1519.1	1478.2	1457.8	1475.3	1460.8
67.5°	1422.9	1419.9	1405.4	1478.2	1475.3	1434.5	1355.8	1320.8	1285.8	1291.6	1282.9
70°	1207.1	1230.4	1259.6	1303.3	1300.4	1253.7	1160.4	1134.2	1084.6	1078.8	1064.2
72.5°	950.5	991.3	1055.5	1087.5	1061.3	1003.0	941.8	898.0	854.3	828.1	836.8
75°	705.6	763.9	798.9	819.3	778.5	746.4	696.8	644.4	591.9	568.6	559.8
77.5°	513.2	530.7	562.7	577.3	551.1	519.0	489.8	437.4	387.8	355.7	347.0
80°	358.6	370.3	393.6	393.6	393.6	379.0	341.1	288.7	256.6	227.4	221.6
82.5°	250.7	262.4	285.7	274.1	271.2	253.7	230.3	189.5	154.5	134.1	128.3
85°	87.5	96.2	116.6	140.0	148.7	145.8	131.2	105.0	81.6	67.1	61.2
87.5°	20.4	20.4	23.3	20.4	20.4	23.3	20.4	20.4	20.4	14.6	11.7
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)