

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: P531626

Luminaire Tested: **GALN-SA6D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31822 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

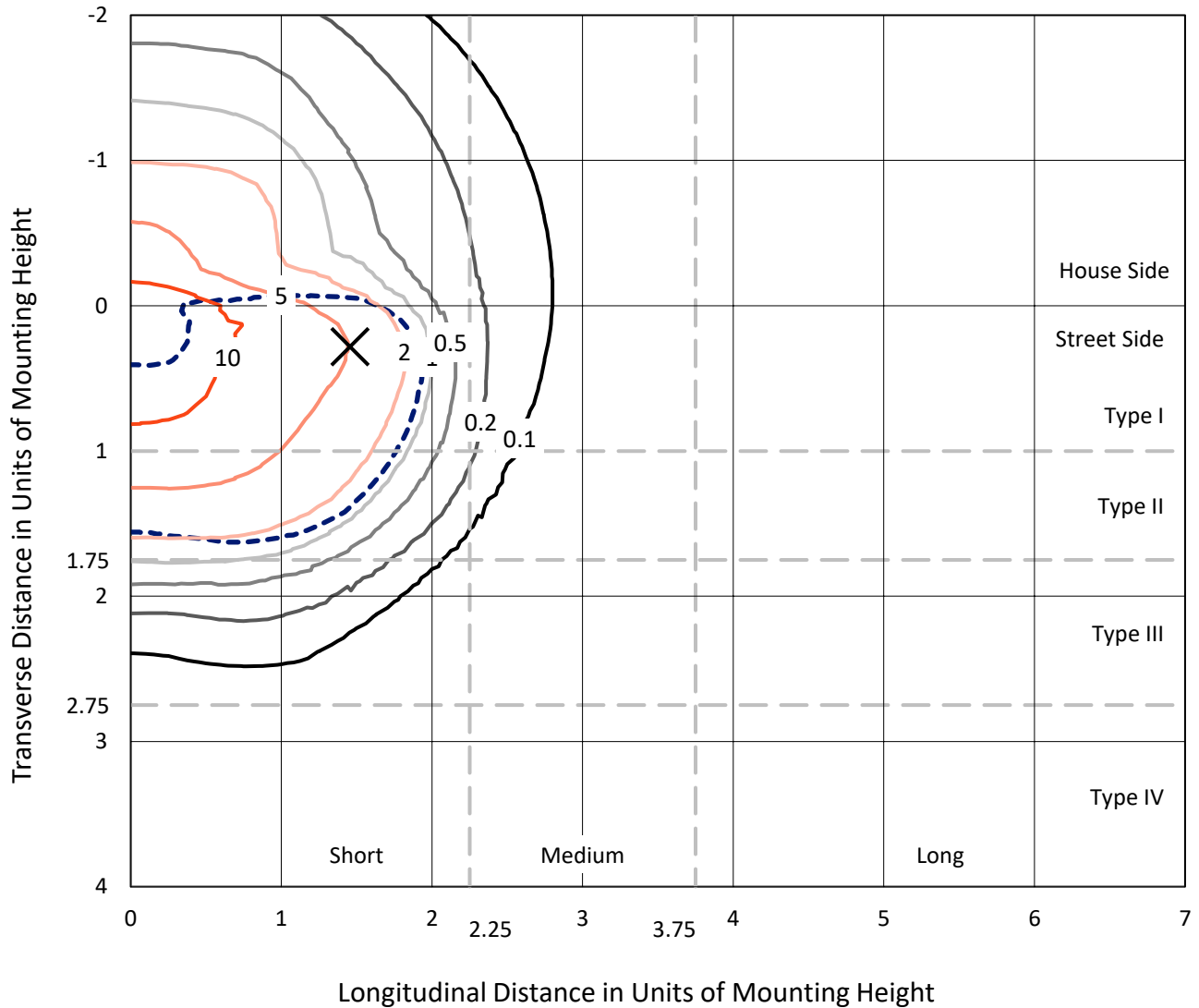
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

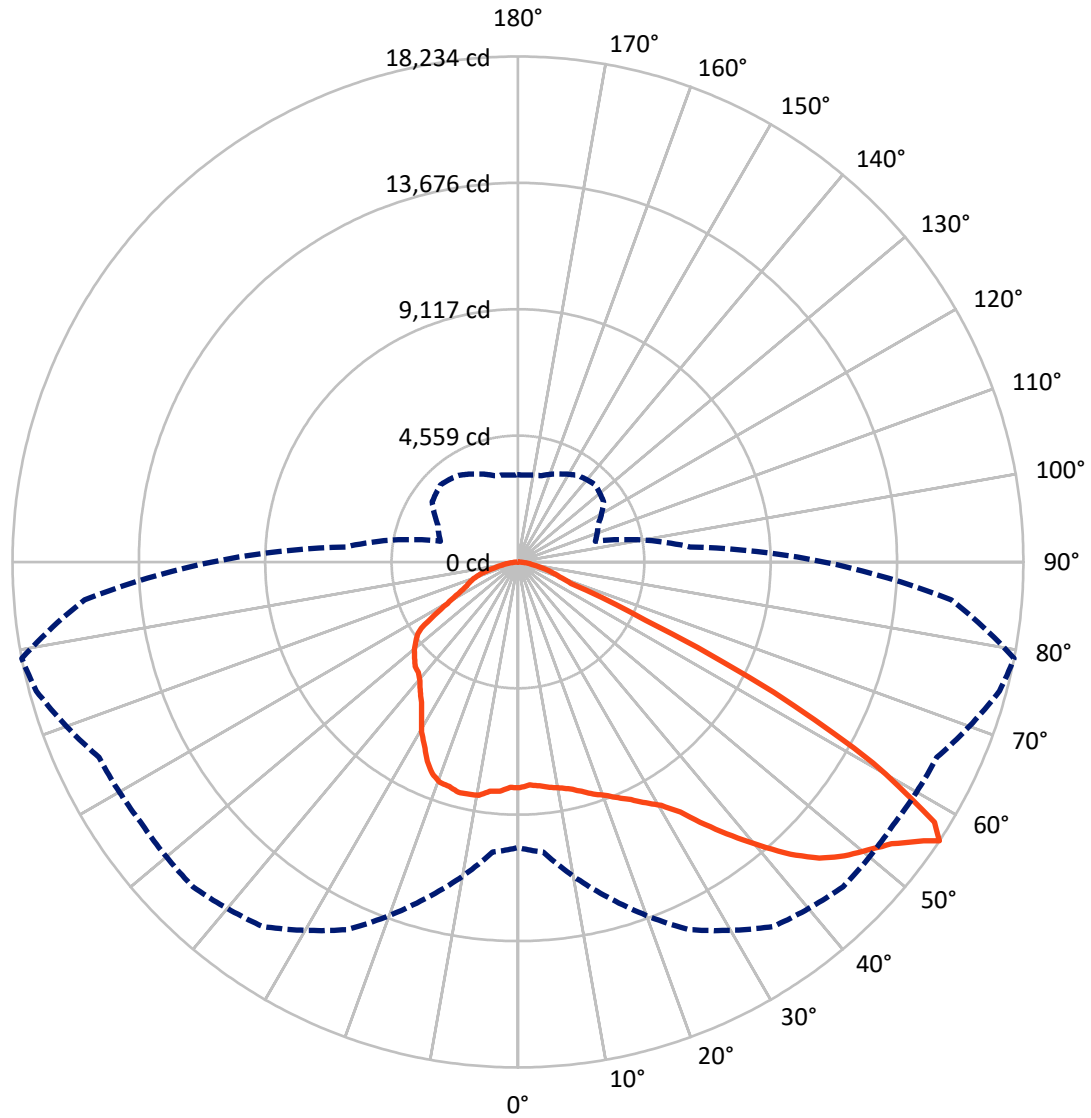
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9397.7	0.0	9397.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22424.3	0.0	22424.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	31822.0	0.0	31822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.3	2.3
10°-20°	2025.9	6.4
20°-30°	3465.9	10.9
30°-40°	5311.9	16.7
40°-50°	7179.0	22.6
50°-60°	8245.4	25.9
60°-70°	3758.5	11.8
70°-80°	926.7	2.9
80°-90°	168.4	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°	31822.0	100.0
0°-180°	31822.0	100.0

Coefficient of Utilization

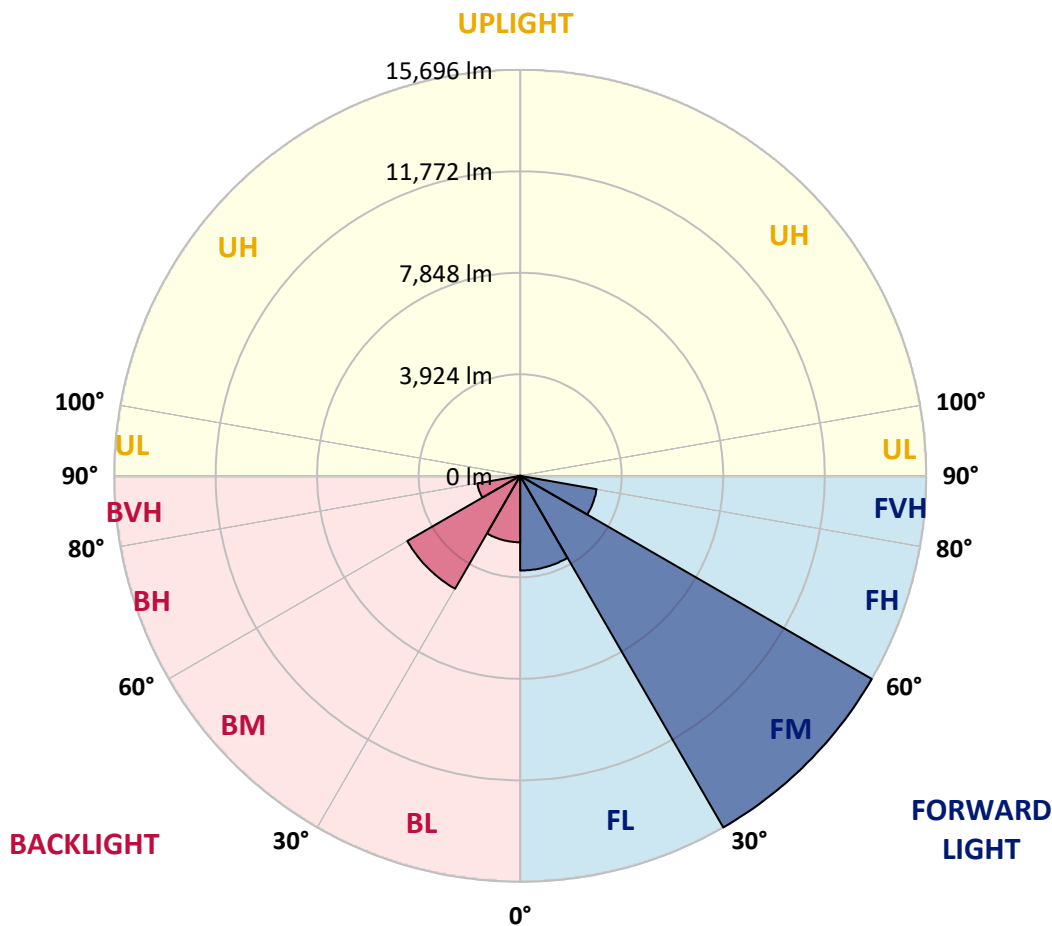


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3661.4	11.5			
FM (30°-60°)	15695.6	49.3			
FH (60°-80°)	3000.1	9.4			G2/5000
FVH (80°-90°)	67.2	0.2			G1/100
BL (0°-30°)	2570.7	8.1	B4/5000		
BM (30°-60°)	5040.8	15.8	B4/8500		
BH (60°-80°)	1685.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	101.2	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0
2.5°	7745.6	7725.8	7773.3	7809.0	7852.6	7908.1	7935.9	7951.7	8090.5	8054.8	8161.8
5°	7579.1	7527.6	7563.3	7591.0	7666.3	7733.7	7809.0	7927.9	8054.8	8110.3	8241.1
7.5°	7432.4	7404.7	7396.8	7416.6	7519.6	7606.9	7737.7	7912.1	8118.2	8209.4	8284.7
10°	7190.6	7151.0	7210.5	7341.3	7369.0	7551.4	7702.0	7951.7	8130.1	8288.7	8510.6
12.5°	7083.6	7044.0	7055.9	7131.2	7325.4	7499.8	7678.2	7959.6	8336.2	8399.6	8696.9
15°	7254.1	7214.4	7226.3	7206.5	7392.8	7484.0	7765.4	8118.2	8478.9	8586.0	8903.1
17.5°	7642.5	7646.5	7595.0	7551.4	7507.8	7702.0	7896.2	8213.3	8534.4	8804.0	9041.8
20°	8383.8	8253.0	8149.9	7904.2	7836.8	7920.0	8165.8	8471.0	8760.4	8982.4	9251.9
22.5°	8954.6	8966.5	8819.8	8415.5	8268.8	8304.5	8514.6	8764.3	9081.5	9240.0	9549.2
25°	9783.1	9699.8	9541.3	9220.2	8891.2	8918.9	9073.5	9299.5	9386.7	9497.7	9834.6
27.5°	10540.2	10564.0	10250.8	9949.6	9541.3	9462.0	9739.5	9779.1	9632.4	9842.5	9957.5
30°	11309.2	11289.4	11083.3	10730.5	10330.1	10346.0	10468.8	10274.6	10072.4	10187.4	10266.7
32.5°	12106.0	11880.0	11872.1	11555.0	11249.7	11103.1	10952.4	11047.6	10734.4	10758.2	10682.9
35°	12744.2	12775.9	12593.5	12367.6	12216.9	11959.3	11547.0	11717.5	11658.0	11630.3	11305.2
37.5°	13207.9	13085.1	13176.2	13100.9	12958.2	12637.1	12209.0	12371.5	12399.3	12534.1	12157.5
40°	13588.5	13536.9	13778.8	13818.4	13719.3	13025.6	12256.6	12740.2	13156.4	13449.7	13001.8
42.5°	13770.8	13881.8	14135.5	14440.7	14218.8	13477.5	12502.4	13021.6	13949.2	14413.0	13802.5
45°	14016.6	13873.9	14250.5	14809.4	14813.3	13858.0	12740.2	13402.2	14567.6	15241.5	14349.6
47.5°	13766.9	13838.2	14226.7	14936.2	15118.6	14258.4	13382.4	13941.3	15249.4	15847.9	14857.0
50°	13207.9	13350.6	14060.2	14797.5	15348.5	14682.5	14119.7	14524.0	15879.7	16335.5	14940.2
52.5°	12625.2	12704.5	13814.4	14904.5	15451.5	15229.6	15106.7	15328.7	16648.7	16886.5	15043.3
55°	11039.7	11416.2	13001.8	14857.0	15955.0	16216.6	16121.5	16446.5	17520.7	17758.6	15606.1
56°	10306.3	10504.5	12514.2	14635.0	16054.1	16577.3	16529.7	16676.4	17984.5	18234.3	15693.3
57.5°	8950.6	8966.5	10671.0	13651.9	15681.5	16684.3	16636.8	16751.7	17893.4	17722.9	14928.3
60°	5601.1	5846.9	7262.0	10500.6	13334.8	15479.3	15748.8	14825.2	15086.9	14726.1	11614.4
62.5°	2901.6	2865.9	3805.4	6140.2	8851.5	11083.3	11333.0	11289.4	10885.1	10357.8	7587.0
65°	1446.8	1454.8	1989.9	3040.4	4534.8	5803.2	6500.9	6576.2	5502.0	5062.0	3599.3
67.5°	1050.5	1090.1	1431.0	1859.1	2136.6	2390.3	2929.4	2873.9	2176.2	2069.2	1918.6
70°	816.6	852.3	1161.4	1419.1	1288.3	1288.3	1403.2	1450.8	1549.9	1593.5	1645.0
72.5°	594.6	622.3	887.9	979.1	844.3	907.7	1050.5	1161.4	1264.5	1280.4	1339.8
75°	408.3	432.1	582.7	539.1	507.4	626.3	769.0	872.1	947.4	987.0	1022.7
77.5°	265.6	273.5	333.0	281.4	325.0	404.3	499.5	586.7	662.0	693.7	701.6
80°	118.9	130.8	142.7	178.4	225.9	289.4	356.8	428.1	475.7	487.6	511.4
82.5°	67.4	67.4	87.2	126.8	166.5	210.1	257.7	309.2	364.7	376.6	372.6
85°	35.7	35.7	51.5	75.3	103.1	122.9	118.9	122.9	130.8	150.6	146.7
87.5°	11.9	11.9	15.9	15.9	19.8	23.8	19.8	27.7	35.7	35.7	35.7
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°	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0
2.5°	8130.1	8165.8	8118.2	8221.3	8221.3	8201.4	8102.3	8134.1	8157.8	8157.8	8177.7
5°	8284.7	8272.8	8304.5	8181.6	8106.3	8078.6	7916.0	7836.8	7769.4	7765.4	7706.0
7.5°	8371.9	8340.2	8328.3	8237.1	7904.2	7702.0	7353.2	7151.0	7107.4	6952.8	7012.3
10°	8510.6	8570.1	8510.6	8015.1	7551.4	7087.6	6746.7	6433.5	6310.6	6211.5	6152.1
12.5°	8796.0	8768.3	8423.4	7753.5	7103.4	6552.4	6045.1	5716.0	5593.2	5506.0	5498.0
15°	9037.8	8899.1	8371.9	7341.3	6405.8	5819.1	5402.9	5169.0	5113.5	5121.4	5157.1
17.5°	9121.1	9026.0	8102.3	6913.2	5886.5	5196.8	5002.5	4966.9	5018.4	5077.8	5093.7
20°	9251.9	9101.3	7991.4	6330.5	5244.3	4808.3	4796.4	4923.2	5018.4	5105.6	5117.5
22.5°	9525.4	9144.9	7630.6	5779.5	4804.3	4693.3	4808.3	4915.3	5062.0	5133.3	5069.9
25°	9604.7	9049.7	7123.2	5117.5	4526.9	4622.0	4744.9	4891.5	4994.6	5034.2	5062.0
27.5°	9672.1	8903.1	6437.5	4677.5	4439.6	4618.0	4744.9	4867.8	4923.2	4958.9	4990.6
30°	9862.4	8859.5	5842.9	4384.1	4384.1	4538.7	4701.3	4733.0	4808.3	4851.9	4907.4
32.5°	9957.5	8558.2	5232.4	4197.8	4328.7	4578.4	4590.3	4649.7	4653.7	4689.4	4629.9
35°	10207.2	8344.2	4665.6	4063.1	4352.4	4538.7	4598.2	4562.5	4368.3	4273.2	4293.0
37.5°	10389.6	8237.1	4257.3	4047.2	4356.4	4582.3	4614.1	4344.5	4142.3	3983.8	4023.4
40°	10881.1	7971.5	3948.1	4019.5	4392.1	4629.9	4542.7	4249.4	3884.7	3722.2	3694.4
42.5°	11257.7	7781.3	3753.9	3987.8	4419.8	4697.3	4507.0	4059.1	3686.5	3535.9	3575.5
45°	11693.7	7737.7	3650.8	3995.7	4467.4	4733.0	4463.4	3912.4	3516.0	3456.6	3444.7
47.5°	11848.3	7424.5	3539.8	3928.3	4455.5	4721.1	4316.8	3801.4	3452.6	3460.5	3492.3
50°	11590.6	7103.4	3456.6	3789.6	4376.2	4614.1	4086.9	3654.8	3416.9	3516.0	3571.5
52.5°	11261.6	6774.4	3286.1	3603.2	4213.7	4447.6	3979.8	3646.9	3381.3	3349.6	3361.4
55°	11360.7	6504.9	3048.3	3349.6	3952.1	4138.4	3860.9	3571.5	3294.1	3175.1	3214.8
56°	11039.7	6227.4	2893.7	3191.0	3773.7	3940.2	3801.4	3504.1	3222.7	3143.4	3143.4
57.5°	10131.9	5295.9	2691.5	2937.3	3397.1	3595.3	3686.5	3464.5	3143.4	3004.7	3008.7
60°	7472.1	3765.8	2414.1	2588.5	2814.4	2973.0	3397.1	3353.5	2945.2	2850.1	2814.4
62.5°	4606.1	2751.0	2215.9	2283.2	2398.2	2529.0	2965.0	3036.4	2735.1	2632.1	2608.3
65°	2580.5	2104.9	2065.2	2093.0	2148.5	2215.9	2461.6	2620.2	2414.1	2255.5	2247.6
67.5°	1886.8	1882.9	1914.6	1938.4	1962.2	1962.2	2021.6	2085.0	2057.3	1930.5	1918.6
70°	1676.8	1688.7	1712.4	1716.4	1724.3	1696.6	1649.0	1629.2	1660.9	1581.6	1565.8
72.5°	1383.4	1423.1	1450.8	1454.8	1411.2	1375.5	1312.1	1244.7	1220.9	1205.0	1201.1
75°	1062.3	1090.1	1102.0	1098.0	1082.2	1030.6	955.3	887.9	844.3	796.8	820.5
77.5°	717.5	757.1	776.9	776.9	753.2	673.9	638.2	586.7	543.1	491.5	499.5
80°	503.4	531.2	562.9	558.9	519.3	479.6	428.1	380.5	344.9	305.2	301.3
82.5°	376.6	392.4	408.3	400.4	372.6	333.0	297.3	253.7	214.1	186.3	186.3
85°	134.8	146.7	178.4	186.3	202.2	202.2	170.5	142.7	115.0	95.1	95.1
87.5°	39.6	39.6	43.6	43.6	39.6	43.6	35.7	39.6	43.6	27.7	27.7
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)