

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: P533023

Luminaire Tested: **GALN-SA8B-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21539 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

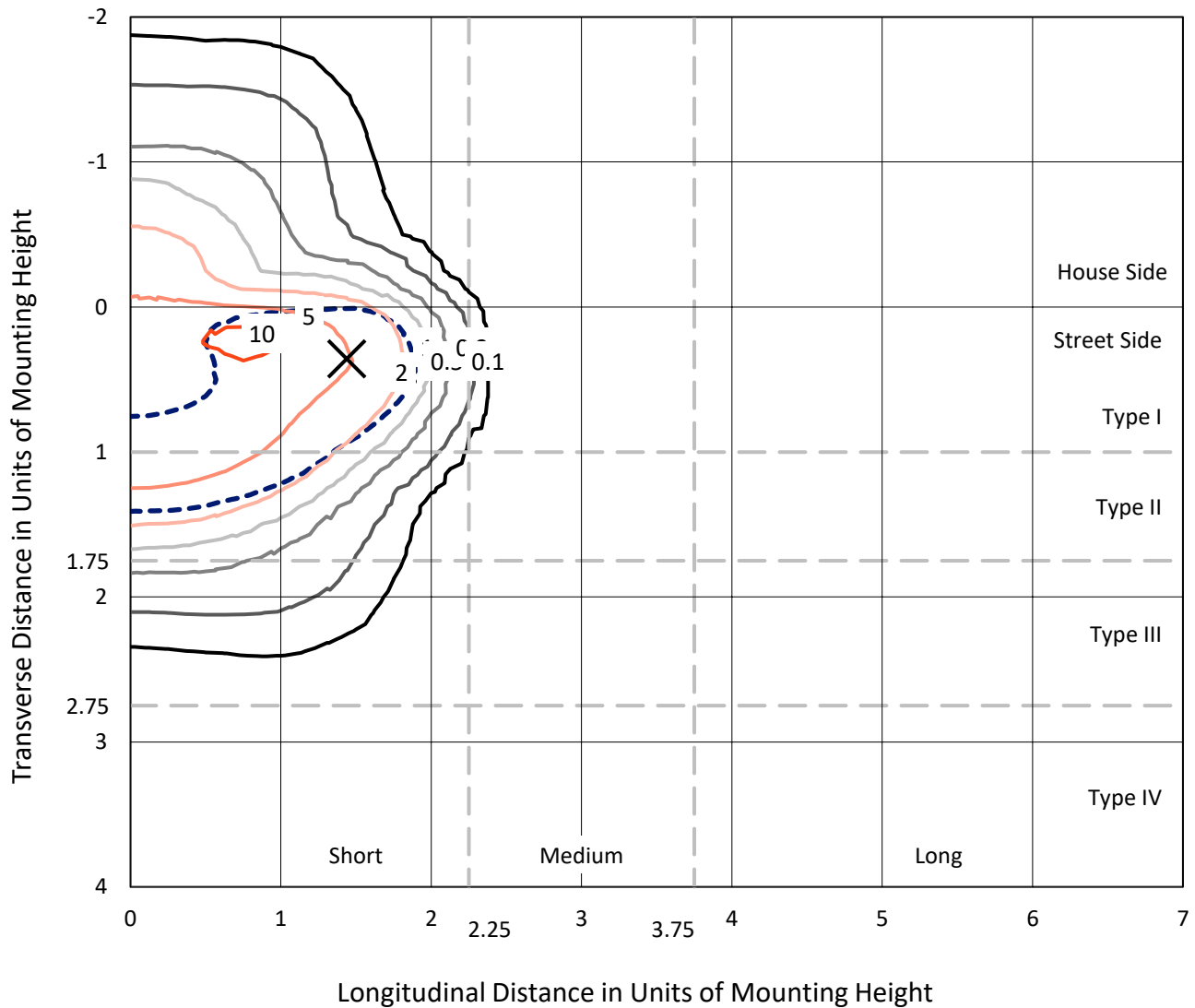
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

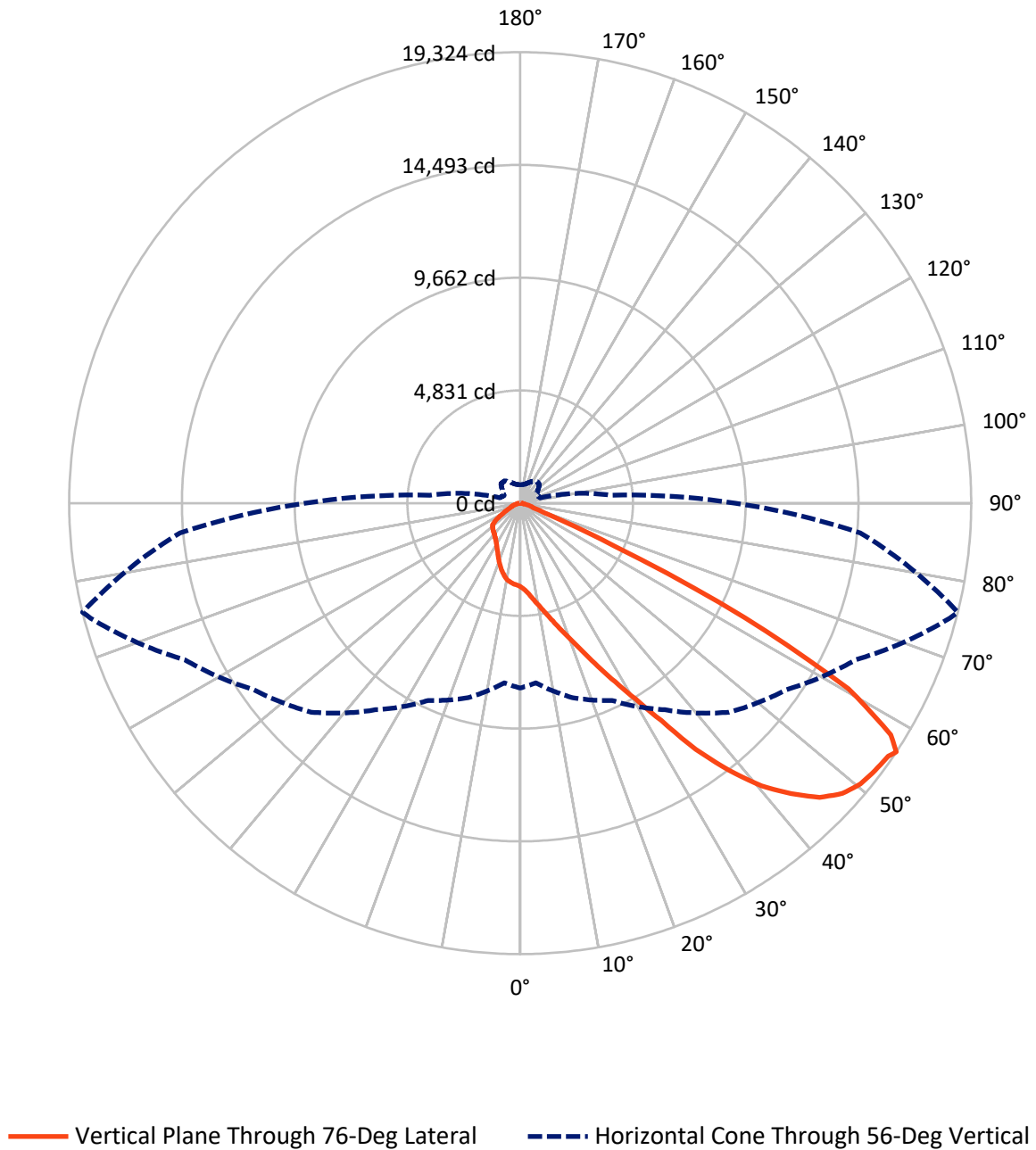
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	3383.7	0.0	3383.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	18155.3	0.0	18155.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	21539.0	0.0	21539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	1.7
10°-20°	1160.3	5.4
20°-30°	2103.9	9.8
30°-40°	3628.2	16.8
40°-50°	5894.2	27.4
50°-60°	6212.7	28.8
60°-70°	1898.2	8.8
70°-80°	243.3	1.1
80°-90°	37.0	0.2
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°	21539.0	100.0
0°-180°	21539.0	100.0

Coefficient of Utilization



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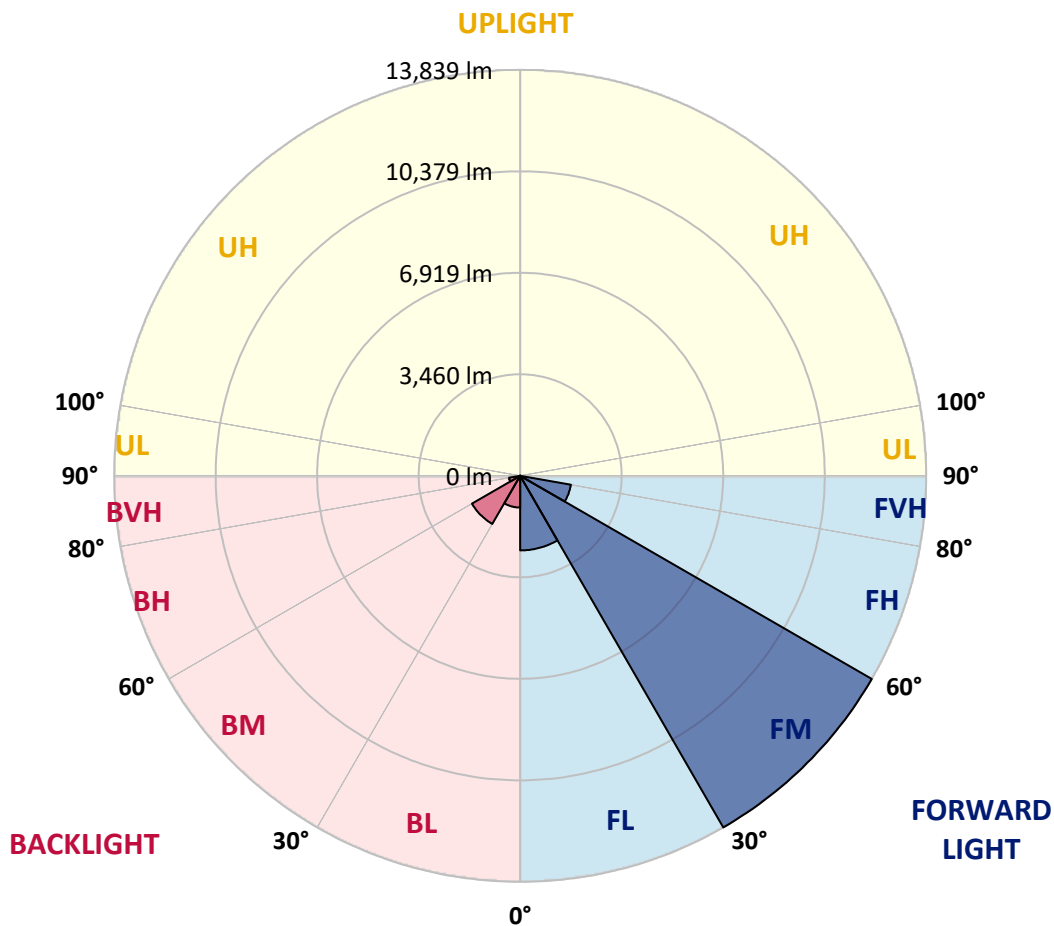
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2542.9	11.8			
FM	(30°-60°)	13838.8	64.2			
FH	(60°-80°)	1755.6	8.2			G1/1800
FVH	(80°-90°)	18.1	0.1			G1/100
BL	(0°-30°)	1082.4	5.0	B3/2500		
BM	(30°-60°)	1896.3	8.8	B2/2500		
BH	(60°-80°)	386.0	1.8	B1/500		G1/500
BVH	(80°-90°)	18.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2
2.5°	4129.1	4033.8	4037.8	4029.9	4018.0	3974.3	3843.3	3823.4	3736.1	3712.2	3632.8
5°	4625.4	4542.0	4589.7	4518.2	4450.7	4411.0	4196.6	4097.4	3958.4	3906.8	3795.6
7.5°	4935.1	4895.4	4879.5	4883.5	4820.0	4720.7	4625.4	4407.1	4220.5	4180.7	3946.5
10°	5086.0	5062.2	5086.0	5074.1	5101.9	5113.8	4947.0	4816.0	4542.0	4474.6	4109.3
12.5°	5121.7	5169.4	5189.2	5240.8	5308.3	5423.5	5411.5	5232.9	4867.6	4823.9	4359.4
15°	5209.1	5248.8	5228.9	5312.3	5439.3	5633.9	5737.1	5709.3	5316.3	5236.9	4649.2
17.5°	5288.5	5217.0	5284.5	5451.2	5578.3	5876.1	6126.2	6241.3	5804.6	5713.3	4915.3
20°	5395.7	5375.8	5363.9	5447.3	5673.6	6070.6	6566.9	6777.3	6352.5	6257.2	5296.4
22.5°	5721.2	5725.2	5717.3	5594.2	5757.0	6205.6	6952.0	7472.1	7007.6	6928.2	5729.2
25°	6150.0	6098.4	6058.7	5959.5	5939.6	6328.7	7341.1	8321.8	7793.7	7738.2	6197.7
27.5°	6602.6	6602.6	6483.5	6392.2	6265.2	6634.4	7698.5	9147.6	8742.6	8667.2	6606.6
30°	7095.0	7122.8	7106.9	6912.3	6832.9	6967.9	8063.7	10203.7	9830.5	9735.2	7281.6
32.5°	7821.5	7762.0	7829.5	7666.7	7432.4	7551.5	8639.4	11148.7	11243.9	11109.0	8166.9
35°	8782.3	8746.6	8702.9	8436.9	8159.0	8254.3	9453.3	12312.0	13018.7	12951.2	9060.3
37.5°	9643.9	9624.1	9588.3	9405.7	9084.1	9199.2	10378.4	13522.9	14749.7	14527.4	10322.8
40°	10549.1	10656.3	10541.2	10378.4	10084.6	10338.7	11466.3	14241.5	16206.8	15936.9	11287.6
42.5°	11776.0	11692.6	11744.2	11446.4	11287.6	11565.5	12558.1	14960.2	17338.4	17016.8	12312.0
45°	13082.2	13086.2	12947.2	12851.9	12439.0	12740.8	13229.1	15357.2	18239.6	17989.5	13086.2
47.5°	13919.9	13916.0	14066.8	14217.7	13792.9	13495.1	13685.7	15734.4	18704.2	18589.0	13368.1
50°	13788.9	13828.6	14023.2	14587.0	14809.3	14408.3	14114.5	15623.2	18914.6	18902.7	13610.3
52.5°	11994.3	12125.4	12450.9	13264.8	14384.5	14880.8	14563.1	15829.7	19017.8	19037.7	13971.6
55°	9131.7	9203.2	9822.6	10811.2	12049.9	13749.2	14384.5	15992.4	19097.2	19133.0	14408.3
56°	7920.8	7730.2	8623.5	9326.3	10807.2	12665.3	13931.9	15865.4	19049.6	19323.5	14626.7
57.5°	5979.3	5852.3	6574.8	7452.3	8877.6	10839.0	12526.4	15265.9	18728.0	18724.0	14313.0
60°	3636.8	3509.8	4065.6	4581.7	5379.8	6674.1	8464.7	12157.1	15833.6	16167.1	11589.4
62.5°	2163.8	2243.2	2791.1	3104.8	3362.9	3497.9	4379.3	7226.0	10565.0	10803.2	7190.2
65°	1441.2	1469.0	1881.9	2398.1	2513.2	2001.0	1782.7	2926.1	4581.7	4434.8	2965.8
67.5°	889.4	952.9	1262.6	1802.5	1997.1	1461.1	845.7	1091.8	1262.6	1262.6	857.6
70°	540.0	571.7	841.7	1226.8	1369.8	941.0	615.4	615.4	607.5	595.5	512.2
72.5°	258.1	277.9	428.8	631.3	643.2	496.3	476.4	520.1	508.2	504.2	424.8
75°	111.2	119.1	150.9	198.5	226.3	210.4	289.8	373.2	385.1	373.2	305.7
77.5°	35.7	39.7	55.6	71.5	75.4	91.3	123.1	154.8	178.7	166.8	150.9
80°	4.0	7.9	15.9	35.7	55.6	71.5	91.3	103.2	115.1	115.1	107.2
82.5°	4.0	4.0	15.9	31.8	51.6	67.5	87.3	99.3	115.1	119.1	111.2
85°	0.0	4.0	11.9	27.8	43.7	43.7	39.7	39.7	27.8	27.8	27.8
87.5°	0.0	0.0	4.0	4.0	4.0	7.9	7.9	7.9	7.9	7.9	7.9
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°	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2	3585.2
2.5°	3617.0	3609.0	3501.8	3434.3	3398.6	3327.1	3283.5	3251.7	3227.9	3200.1	3204.0
5°	3664.6	3636.8	3458.1	3335.1	3188.2	3108.8	3041.3	2985.7	2949.9	2942.0	2926.1
7.5°	3799.6	3652.7	3382.7	3160.4	2973.8	2894.4	2834.8	2799.1	2815.0	2779.2	2807.0
10°	3902.8	3684.5	3291.4	2969.8	2783.2	2723.6	2691.9	2719.7	2759.4	2743.5	2723.6
12.5°	4029.9	3716.2	3144.5	2787.2	2612.5	2568.8	2624.4	2676.0	2755.4	2787.2	2747.5
15°	4172.8	3752.0	2957.9	2576.7	2465.6	2501.3	2596.6	2687.9	2767.3	2807.0	2830.8
17.5°	4347.5	3740.0	2775.3	2410.0	2326.6	2429.8	2545.0	2628.4	2747.5	2807.0	2791.1
20°	4510.3	3700.3	2572.8	2243.2	2247.2	2342.5	2437.8	2572.8	2636.3	2715.7	2687.9
22.5°	4665.1	3628.9	2362.3	2128.1	2128.1	2275.0	2322.6	2410.0	2465.6	2505.3	2501.3
25°	4883.5	3493.9	2187.6	2016.9	2064.6	2159.9	2199.6	2227.3	2203.5	2235.3	2239.3
27.5°	5038.3	3354.9	2044.7	1917.7	2005.0	2076.5	2064.6	2048.7	1993.1	1949.4	1977.2
30°	5205.1	3192.1	1921.6	1850.2	1897.8	1961.3	1913.7	1866.1	1778.7	1707.2	1711.2
32.5°	5443.3	3116.7	1814.4	1770.8	1834.3	1842.2	1790.6	1719.1	1631.8	1564.3	1560.3
35°	5888.0	3069.1	1723.1	1719.1	1731.1	1735.0	1683.4	1596.1	1560.3	1504.8	1524.6
37.5°	6332.7	3045.2	1659.6	1643.7	1639.7	1643.7	1584.2	1500.8	1568.3	1564.3	1572.2
40°	6900.4	3152.4	1568.3	1548.4	1552.4	1552.4	1477.0	1453.1	1572.2	1584.2	1588.1
42.5°	7476.1	3287.4	1508.7	1445.2	1461.1	1461.1	1421.4	1393.6	1477.0	1397.6	1385.6
45°	7976.4	3485.9	1445.2	1342.0	1381.7	1401.5	1389.6	1342.0	1290.4	1155.4	1155.4
47.5°	8139.2	3660.6	1369.8	1242.7	1274.5	1361.8	1326.1	1226.8	1135.5	1024.3	1016.4
50°	8425.0	3851.2	1310.2	1127.6	1195.1	1302.3	1266.5	1167.3	1064.0	984.6	988.6
52.5°	8718.8	4069.6	1199.0	992.6	1076.0	1254.6	1254.6	1143.5	984.6	929.1	921.1
55°	9159.5	4061.6	1000.5	813.9	960.8	1183.2	1203.0	1024.3	881.4	837.7	837.7
56°	9223.1	3879.0	901.3	762.3	909.2	1163.3	1167.3	992.6	841.7	794.1	794.1
57.5°	8746.6	3501.8	790.1	698.8	845.7	1127.6	1131.5	964.8	809.9	742.4	734.5
60°	6729.7	2370.3	659.1	623.3	766.3	1016.4	1036.3	877.4	710.7	659.1	655.1
62.5°	3799.6	1314.2	579.7	563.8	659.1	865.5	925.1	766.3	603.5	575.7	583.6
65°	1735.0	722.6	488.3	456.6	532.0	667.0	746.4	631.3	496.3	464.5	464.5
67.5°	635.3	492.3	416.9	361.3	373.2	432.8	484.4	408.9	329.5	281.9	293.8
70°	452.6	412.9	365.3	313.7	289.8	281.9	277.9	230.3	162.8	127.1	135.0
72.5°	365.3	341.4	305.7	266.0	226.3	190.6	162.8	119.1	75.4	51.6	47.6
75°	262.0	250.1	222.3	190.6	158.8	135.0	111.2	75.4	39.7	19.9	19.9
77.5°	135.0	135.0	131.0	119.1	99.3	79.4	63.5	43.7	23.8	7.9	7.9
80°	103.2	111.2	115.1	103.2	91.3	71.5	51.6	31.8	15.9	4.0	4.0
82.5°	99.3	115.1	123.1	107.2	91.3	67.5	51.6	31.8	15.9	4.0	4.0
85°	23.8	23.8	35.7	39.7	51.6	55.6	43.7	27.8	11.9	4.0	4.0
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0	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)