

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: P651578

Luminaire Tested: **GALN-SA8D-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651578
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-SA8D-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA 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: 30990 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

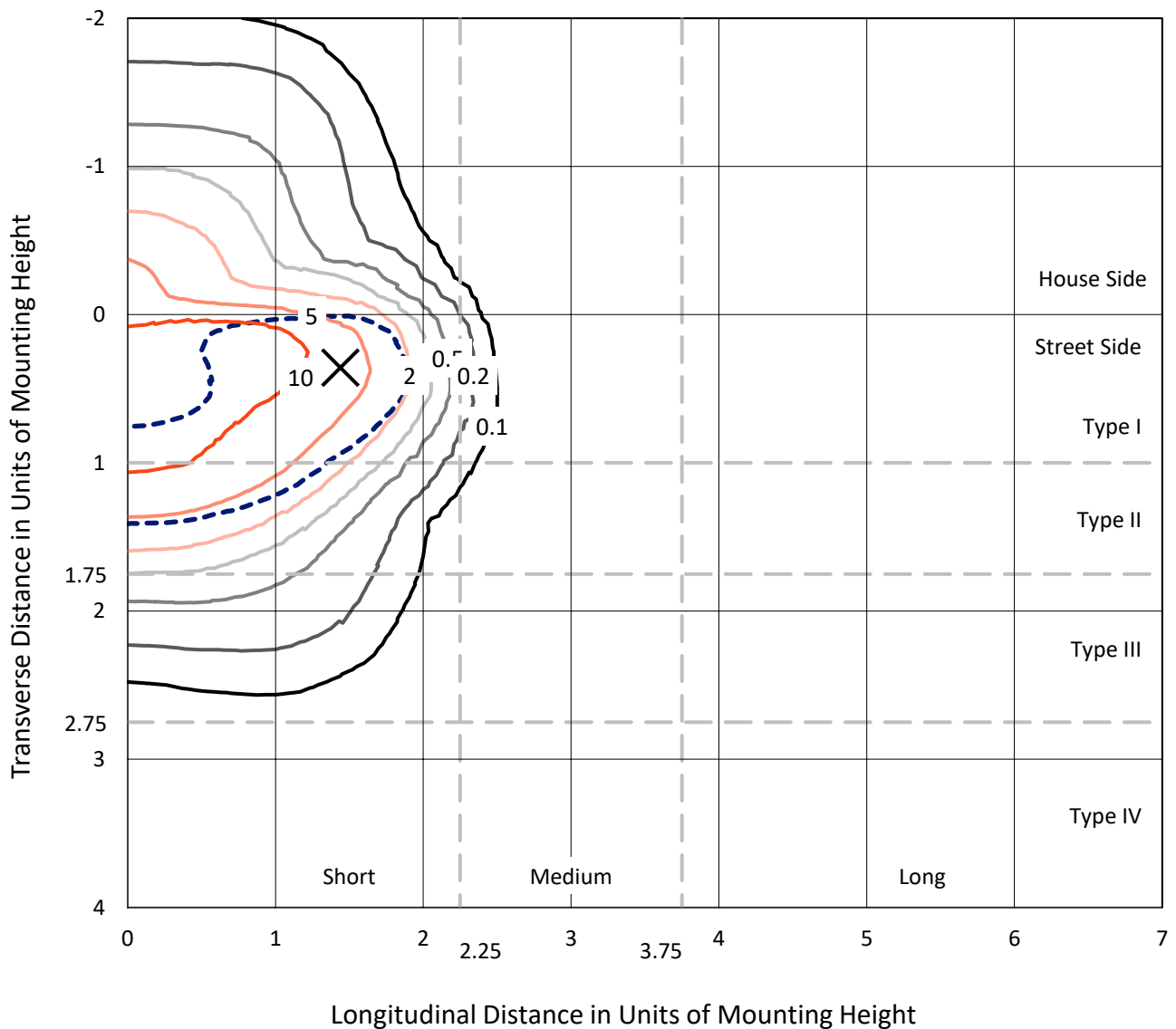
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

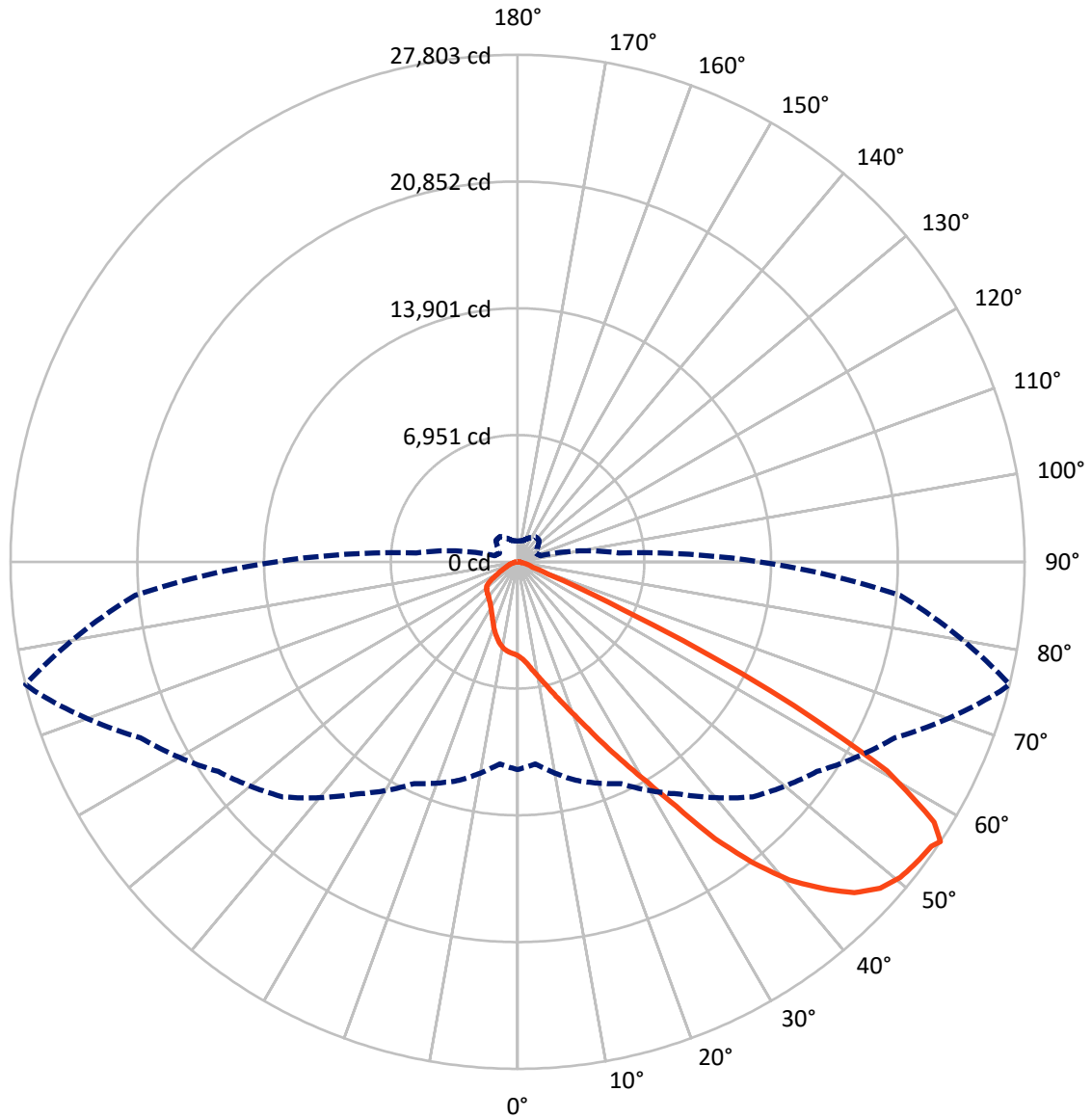
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4868.4	0.0	4868.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	26121.6	0.0	26121.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	30990.0	0.0	30990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.6	1.7
10°-20°	1669.4	5.4
20°-30°	3027.0	9.8
30°-40°	5220.3	16.8
40°-50°	8480.5	27.4
50°-60°	8938.7	28.8
60°-70°	2731.2	8.8
70°-80°	350.1	1.1
80°-90°	53.2	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°	30990.0	100.0
0°-180°	30990.0	100.0

Coefficient of Utilization



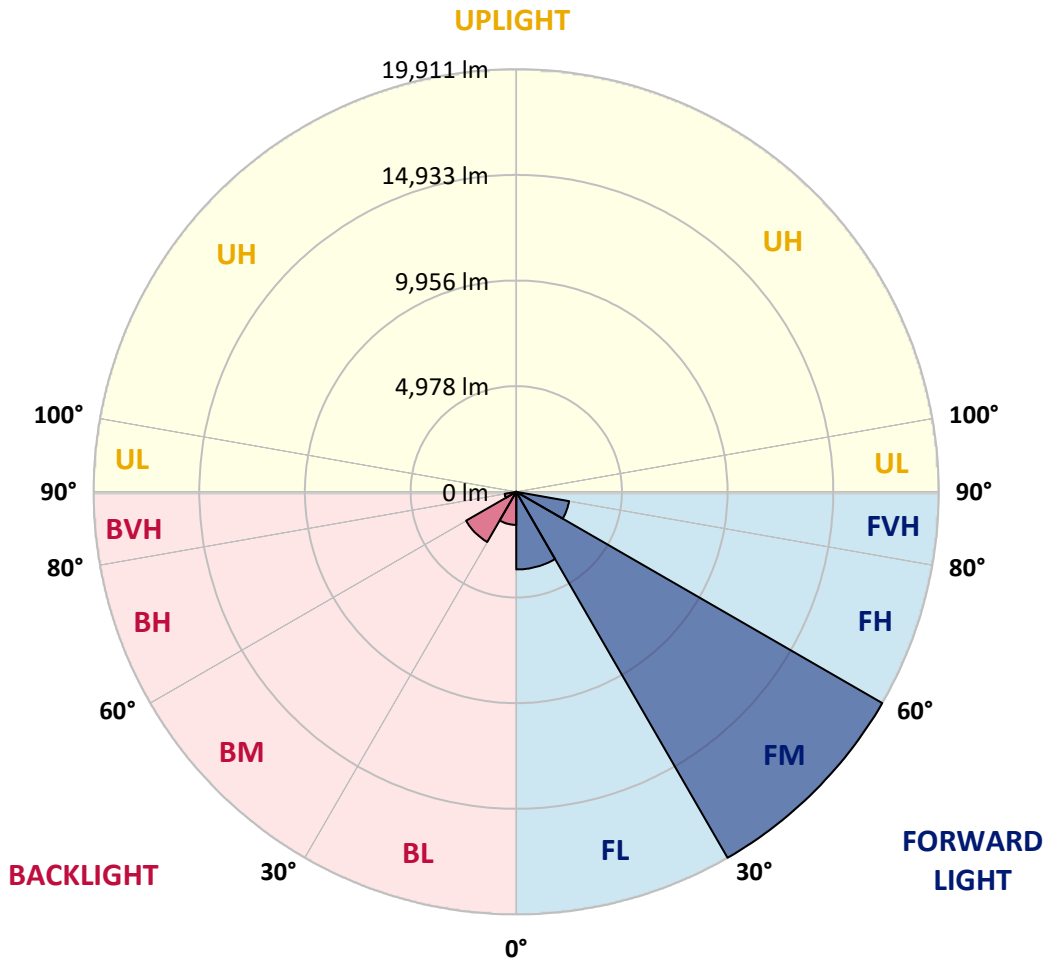
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3658.6	11.8			
FM (30°-60°)	19911.0	64.2			
FH (60°-80°)	2525.9	8.2			G2/5000
FVH (80°-90°)	26.1	0.1			G1/100
BL (0°-30°)	1557.4	5.0	B3/2500		
BM (30°-60°)	2728.4	8.8	B3/5000		
BH (60°-80°)	555.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	27.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4
2.5°	5940.9	5803.8	5809.5	5798.1	5780.9	5718.1	5529.7	5501.1	5375.4	5341.1	5226.9
5°	6655.0	6535.0	6603.6	6500.8	6403.6	6346.5	6038.0	5895.2	5695.3	5621.1	5461.1
7.5°	7100.6	7043.5	7020.6	7026.3	6934.9	6792.1	6655.0	6340.8	6072.4	6015.2	5678.2
10°	7317.6	7283.4	7317.6	7300.5	7340.5	7357.7	7117.7	6929.2	6535.0	6437.9	5912.4
12.5°	7369.0	7437.6	7466.1	7540.4	7637.5	7803.2	7786.1	7529.0	7003.4	6940.6	6272.3
15°	7494.7	7551.8	7523.2	7643.3	7826.0	8106.0	8254.5	8214.5	7649.0	7534.7	6689.2
17.5°	7608.9	7506.2	7603.2	7843.2	8026.0	8454.4	8814.3	8979.9	8351.6	8220.2	7072.0
20°	7763.2	7734.7	7717.5	7837.4	8163.1	8734.3	9448.4	9751.1	9139.9	9002.8	7620.4
22.5°	8231.6	8237.3	8225.9	8048.8	8283.0	8928.6	10002.5	10750.8	10082.5	9968.2	8243.1
25°	8848.6	8774.3	8717.2	8574.3	8545.8	9105.6	10562.3	11973.2	11213.6	11133.6	8917.1
27.5°	9499.8	9499.8	9328.5	9197.0	9014.3	9545.5	11076.4	13161.5	12578.8	12470.3	9505.5
30°	10208.1	10248.1	10225.3	9945.3	9831.1	10025.3	11601.9	14681.0	14144.0	14006.9	10476.6
32.5°	11253.5	11167.8	11264.9	11030.7	10693.7	10865.0	12430.2	16040.6	16177.6	15983.4	11750.5
35°	12635.9	12584.5	12521.6	12138.9	11739.1	11876.2	13601.3	17714.2	18731.1	18634.0	13035.8
37.5°	13875.5	13847.0	13795.5	13532.8	13070.1	13235.7	14932.3	19456.5	21221.7	20901.8	14852.3
40°	15177.9	15332.2	15166.5	14932.3	14509.6	14875.2	16497.6	20490.5	23318.2	22929.7	16240.5
42.5°	16943.1	16823.1	16897.4	16469.0	16240.5	16640.4	18068.5	21524.5	24946.2	24483.5	17714.2
45°	18822.5	18828.2	18628.2	18491.2	17897.1	18331.2	19033.8	22095.7	26243.0	25883.0	18828.2
47.5°	20027.8	20022.1	20239.2	20456.2	19845.0	19416.6	19690.8	22638.4	26911.3	26745.7	19233.8
50°	19839.3	19896.5	20176.3	20987.5	21307.4	20730.5	20307.7	22478.4	27214.1	27196.9	19582.3
52.5°	17257.3	17445.8	17914.2	19085.2	20696.2	21410.3	20953.3	22775.5	27362.6	27391.1	20102.1
55°	13138.6	13241.5	14132.6	15555.0	17337.2	19782.2	20696.2	23009.7	27476.8	27528.3	20730.5
56°	11396.3	11122.1	12407.4	13418.5	15549.2	18222.7	20045.0	22826.9	27408.3	27802.5	21044.6
57.5°	8602.9	8420.2	9459.8	10722.2	12773.0	15595.0	18022.7	21964.3	26945.6	26939.8	20593.3
60°	5232.6	5049.8	5849.6	6592.2	7740.4	9602.6	12178.9	17491.5	22781.2	23261.1	16674.6
62.5°	3113.3	3227.5	4015.9	4467.1	4838.4	5032.6	6300.9	10396.6	15200.8	15543.5	10345.2
65°	2073.7	2113.6	2707.7	3450.3	3616.0	2879.1	2564.9	4210.0	6592.2	6380.8	4267.2
67.5°	1279.6	1371.0	1816.6	2593.5	2873.4	2102.2	1216.8	1570.9	1816.6	1816.6	1233.9
70°	776.9	822.6	1211.0	1765.2	1970.8	1353.8	885.4	885.4	874.0	856.9	736.9
72.5°	371.3	399.9	617.0	908.3	925.4	714.1	685.5	748.3	731.2	725.4	611.2
75°	160.0	171.4	217.1	285.6	325.6	302.8	417.0	537.0	554.1	537.0	439.8
77.5°	51.4	57.1	80.0	102.9	108.6	131.4	177.1	222.8	257.1	239.9	217.1
80°	5.7	11.4	22.9	51.4	80.0	102.9	131.4	148.5	165.7	165.7	154.2
82.5°	5.7	5.7	22.9	45.7	74.3	97.1	125.6	142.8	165.7	171.4	160.0
85°	0.0	5.7	17.2	39.9	62.8	62.8	57.1	57.1	39.9	39.9	39.9
87.5°	0.0	0.0	5.7	5.7	5.7	11.4	11.4	11.4	11.4	11.4	11.4
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°	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4	5158.4
2.5°	5204.0	5192.6	5038.3	4941.3	4889.8	4787.1	4724.1	4678.5	4644.3	4604.2	4609.9
5°	5272.6	5232.6	4975.5	4798.4	4587.1	4472.9	4375.7	4295.7	4244.4	4232.9	4210.0
7.5°	5466.8	5255.4	4867.0	4547.1	4278.6	4164.4	4078.7	4027.3	4050.1	3998.7	4038.7
10°	5615.4	5301.2	4735.6	4272.9	4004.4	3918.7	3873.1	3913.0	3970.1	3947.3	3918.7
12.5°	5798.1	5346.8	4524.2	4010.1	3758.8	3695.9	3775.9	3850.2	3964.5	4010.1	3953.0
15°	6003.8	5398.3	4255.8	3707.4	3547.4	3598.8	3736.0	3867.3	3981.5	4038.7	4073.0
17.5°	6255.1	5381.1	3993.0	3467.4	3347.5	3496.0	3661.7	3781.6	3953.0	4038.7	4015.9
20°	6489.3	5324.0	3701.7	3227.5	3233.2	3370.3	3507.5	3701.7	3793.1	3907.3	3867.3
22.5°	6712.1	5221.2	3398.9	3061.8	3061.8	3273.3	3341.8	3467.4	3547.4	3604.5	3598.8
25°	7026.3	5026.9	3147.5	2902.0	2970.5	3107.6	3164.7	3204.7	3170.4	3216.1	3221.8
27.5°	7249.1	4827.0	2941.9	2759.1	2884.8	2987.6	2970.5	2947.6	2867.6	2804.8	2844.8
30°	7489.0	4592.8	2764.8	2662.0	2730.6	2822.0	2753.4	2684.8	2559.2	2456.3	2462.0
32.5°	7831.7	4484.3	2610.5	2547.7	2639.1	2650.6	2576.3	2473.5	2347.8	2250.7	2245.0
35°	8471.6	4415.8	2479.2	2473.5	2490.6	2496.3	2422.1	2296.4	2245.0	2165.0	2193.6
37.5°	9111.3	4381.4	2387.8	2365.0	2359.3	2365.0	2279.3	2159.3	2256.4	2250.7	2262.1
40°	9928.3	4535.7	2256.4	2227.9	2233.5	2233.5	2125.0	2090.7	2262.1	2279.3	2285.0
42.5°	10756.6	4729.9	2170.7	2079.3	2102.2	2102.2	2045.1	2005.0	2125.0	2010.7	1993.7
45°	11476.3	5015.6	2079.3	1930.8	1988.0	2016.5	1999.4	1930.8	1856.5	1662.3	1662.3
47.5°	11710.5	5266.8	1970.8	1788.0	1833.7	1959.4	1908.0	1765.2	1633.7	1473.8	1462.4
50°	12121.8	5541.1	1885.1	1622.4	1719.4	1873.7	1822.3	1679.5	1531.0	1416.7	1422.4
52.5°	12544.5	5855.2	1725.1	1428.1	1548.1	1805.1	1805.1	1645.2	1416.7	1336.7	1325.2
55°	13178.6	5843.9	1439.5	1171.0	1382.4	1702.3	1730.9	1473.8	1268.1	1205.3	1205.3
56°	13270.0	5581.0	1296.7	1096.7	1308.2	1673.8	1679.5	1428.1	1211.0	1142.5	1142.5
57.5°	12584.5	5038.3	1136.8	1005.4	1216.8	1622.4	1628.0	1388.2	1165.4	1068.2	1056.8
60°	9682.6	3410.3	948.2	896.8	1102.5	1462.4	1490.9	1262.4	1022.5	948.2	942.6
62.5°	5466.8	1890.8	834.0	811.1	948.2	1245.4	1331.0	1102.5	868.3	828.3	839.7
65°	2496.3	1039.6	702.7	656.9	765.5	959.7	1074.0	908.3	714.1	668.3	668.3
67.5°	914.0	708.4	599.8	519.8	537.0	622.7	696.9	588.4	474.2	405.6	422.7
70°	651.2	594.1	525.5	451.3	417.0	405.6	399.9	331.4	234.2	182.8	194.2
72.5°	525.5	491.2	439.8	382.7	325.6	274.2	234.2	171.4	108.6	74.3	68.5
75°	377.0	359.9	319.9	274.2	228.5	194.2	160.0	108.6	57.1	28.6	28.6
77.5°	194.2	194.2	188.6	171.4	142.8	114.2	91.4	62.8	34.3	11.4	11.4
80°	148.5	160.0	165.7	148.5	131.4	102.9	74.3	45.7	22.9	5.7	5.7
82.5°	142.8	165.7	177.1	154.2	131.4	97.1	74.3	45.7	22.9	5.7	5.7
85°	34.3	34.3	51.4	57.1	74.3	80.0	62.8	39.9	17.2	5.7	5.7
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	5.7	5.7	5.7	5.7	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)