

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: P533766

Luminaire Tested: **GALN-SA9B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38928 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

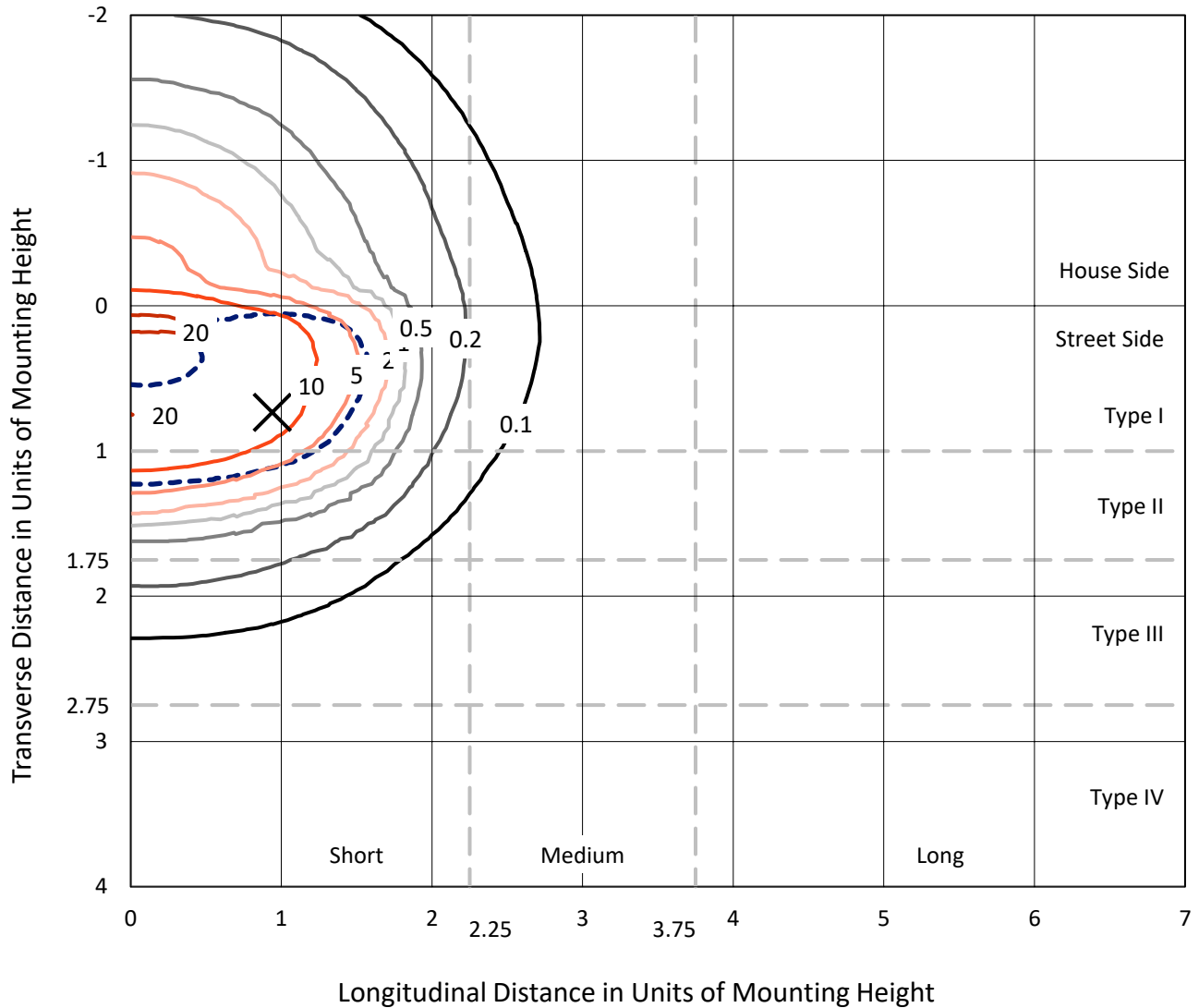
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

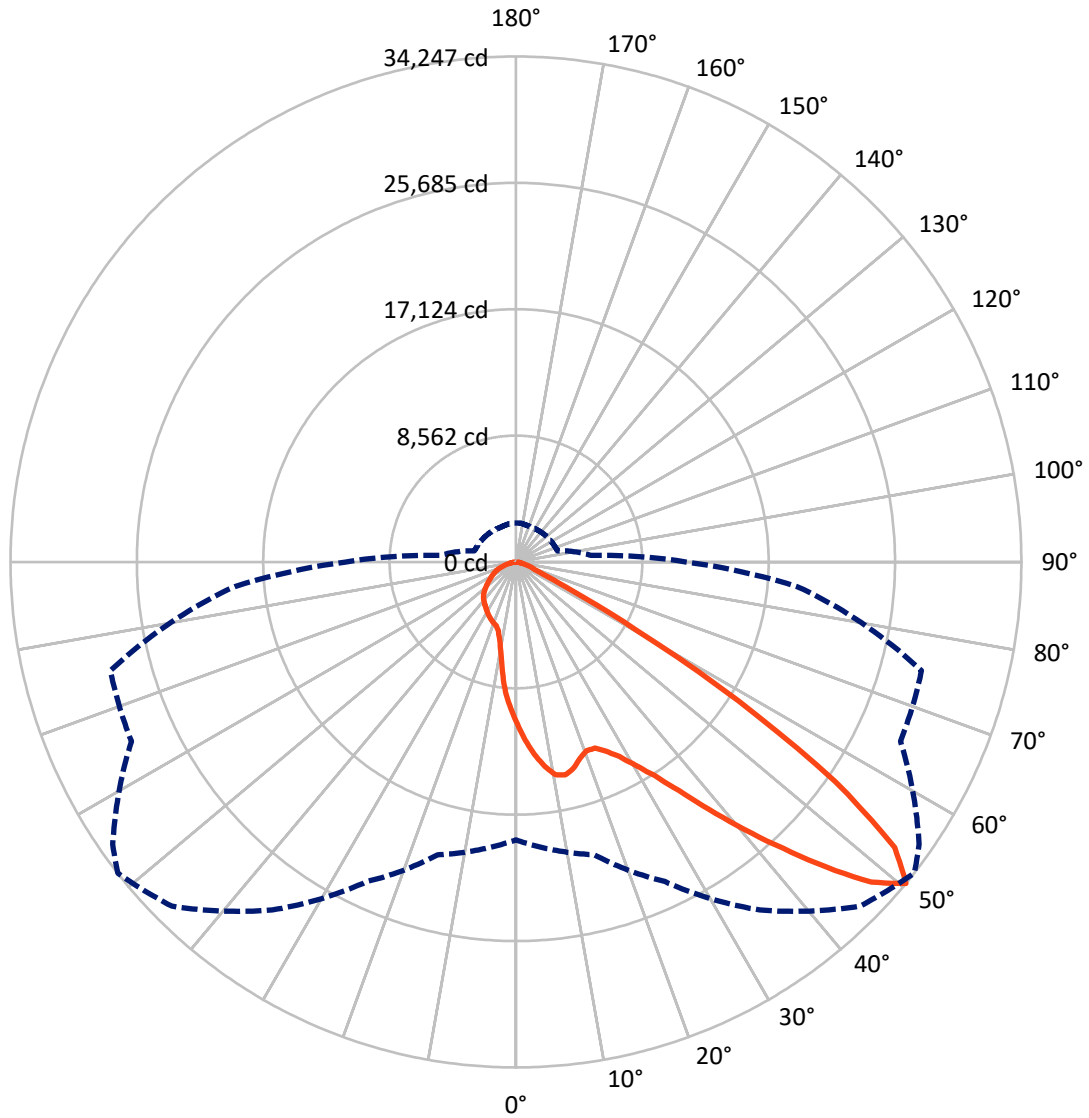
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7317.5	0.0	7317.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	31610.5	0.0	31610.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	38928.0	0.0	38928.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1011.4	2.6
10°-20°	2710.8	7.0
20°-30°	4566.2	11.7
30°-40°	7662.5	19.7
40°-50°	11721.7	30.1
50°-60°	8546.1	22.0
60°-70°	1901.9	4.9
70°-80°	686.0	1.8
80°-90°	121.4	0.3
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°	38928.0	100.0
0°-180°	38928.0	100.0

**Coefficient of Utilization**



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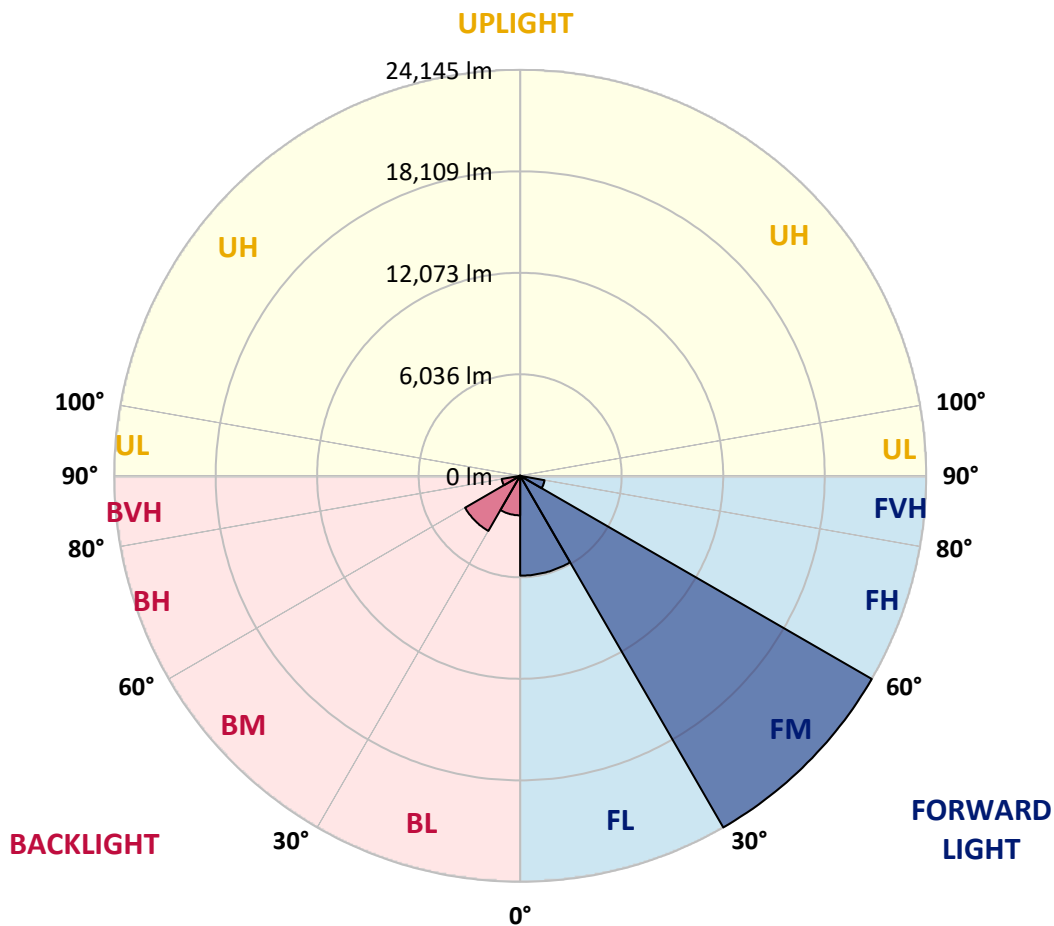
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5937.8	15.3			
FM (30°-60°)	24145.1	62.0			
FH (60°-80°)	1473.1	3.8			G1/1800
FVH (80°-90°)	54.4	0.1			G1/100
BL (0°-30°)	2350.5	6.0	B3/2500		
BM (30°-60°)	3785.1	9.7	B3/5000		
BH (60°-80°)	1114.9	2.9	B3/2500		G3/2500
BVH (80°-90°)	67.0	0.2			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°	52°	55°	65°	75°	85°
0°	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2
2.5°	12920.1	12671.4	12699.6	12521.3	12329.0	12272.7	12075.6	11888.0	11747.2	11447.0	11170.2
5°	14121.1	14046.0	13933.4	13792.7	13647.2	13290.7	13089.0	12854.4	12338.4	11873.9	11414.1
7.5°	14294.7	14280.6	14341.6	14341.6	14393.2	14257.1	13971.0	13806.8	13257.9	12502.6	11648.7
10°	13074.9	13117.1	13412.7	13797.4	14332.2	14702.8	14655.9	14613.7	14013.2	12981.1	11925.5
12.5°	12103.8	12010.0	12183.5	12511.9	13314.2	14210.2	14815.4	14820.1	14665.3	13745.8	12127.2
15°	11554.9	11620.6	11667.5	11822.3	12427.5	13464.3	14529.2	14843.6	15523.8	14285.3	12446.3
17.5°	11906.7	11686.2	11676.9	11714.4	12024.0	12802.8	13999.1	14538.6	15992.9	14979.6	12840.3
20°	12366.5	12361.8	12230.4	12183.5	12178.8	12873.2	13651.9	14383.8	16241.6	15880.4	13239.1
22.5°	13173.4	13173.4	12957.6	12854.4	12633.9	13201.6	13698.9	14196.1	16654.4	16499.6	13431.4
25°	14524.5	14304.0	13933.4	13680.1	13553.4	13755.2	14196.1	14641.8	17015.7	17156.4	13830.2
27.5°	15772.4	15425.3	15242.3	14806.0	14637.1	14519.8	14923.3	15373.7	17437.9	18179.1	14046.0
30°	17189.2	17128.3	16799.9	16236.9	15819.4	15603.6	15974.2	16419.9	18212.0	19225.3	14543.3
32.5°	19722.6	19169.0	18723.3	18033.7	17353.4	16893.7	17259.6	17555.2	19497.4	20318.4	15087.5
35°	22457.7	22279.4	21510.0	20266.8	19225.3	18812.5	19028.3	19248.8	20994.0	21988.5	16002.3
37.5°	25145.8	24901.9	24268.6	23222.4	21955.7	21115.9	21270.8	21528.8	22673.5	24240.4	17118.9
40°	27078.7	26778.4	26459.4	26304.6	25047.3	23897.9	23808.8	23874.5	24944.1	26351.5	18357.4
42.5°	27219.4	27590.1	27688.6	28312.5	28017.0	27074.0	26525.1	26539.2	27111.5	28439.2	19610.0
45°	26923.9	26581.4	27308.6	29011.5	29987.4	30428.3	29504.1	29386.9	28453.3	29649.6	20234.0
47.5°	23822.9	23916.7	25145.8	27838.7	30658.2	32628.6	32412.8	32023.4	29171.1	29607.4	20135.4
50°	18831.2	19398.9	20538.9	23893.2	28781.7	32975.8	34247.1	33346.4	28744.1	28443.9	19131.5
52.5°	12540.1	12774.7	13525.3	17855.4	23142.6	29476.0	32136.0	32342.4	28350.1	26919.2	17860.1
55°	5582.8	5564.0	6619.5	9326.5	14519.8	22429.5	26257.7	27515.0	26834.7	25366.3	16621.6
57.5°	2364.5	2444.2	2875.8	4029.9	7140.3	13534.7	17789.7	18892.2	20637.4	20829.8	12751.2
60°	1599.8	1609.1	1726.4	2017.3	2988.4	6356.8	9331.2	10654.1	11902.1	11817.6	6765.0
62.5°	1257.3	1290.1	1379.3	1496.6	1773.3	2885.2	4175.3	4911.9	4991.6	4198.8	2566.2
65°	1074.3	1079.0	1168.2	1266.7	1388.7	1679.5	2012.6	2050.1	2073.6	1998.5	1885.9
67.5°	886.7	896.1	966.4	1079.0	1191.6	1285.4	1379.3	1426.2	1534.1	1745.2	1717.0
70°	703.7	717.8	778.8	872.6	975.8	1032.1	1149.4	1191.6	1290.1	1454.3	1520.0
72.5°	534.8	539.5	591.1	656.8	750.6	806.9	905.4	952.4	1018.0	1158.8	1219.8
75°	384.7	398.8	436.3	469.1	483.2	520.7	614.6	666.2	760.0	821.0	825.7
77.5°	201.7	211.1	220.5	220.5	267.4	337.8	398.8	426.9	492.6	539.5	516.1
80°	79.8	84.4	107.9	145.4	187.7	244.0	286.2	300.2	356.5	384.7	398.8
82.5°	46.9	51.6	70.4	103.2	136.1	173.6	206.4	220.5	258.0	290.9	300.2
85°	23.5	28.1	42.2	65.7	89.1	107.9	103.2	98.5	98.5	93.8	98.5
87.5°	9.4	9.4	14.1	14.1	14.1	18.8	23.5	23.5	23.5	28.1	28.1
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°	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2	10973.2
2.5°	10987.2	10799.6	10626.0	10307.0	9959.8	9861.3	9457.8	9312.4	9209.2	9087.2	9049.7
5°	11043.5	10794.9	10236.6	9593.9	9082.5	8425.7	7994.1	7529.7	7191.9	7107.5	7084.0
7.5°	11160.8	10733.9	9772.2	8801.0	7754.9	6863.5	6183.3	5817.3	5493.6	5474.9	5442.0
10°	11292.2	10550.9	9265.5	7740.8	6403.7	5578.1	5169.9	5010.4	4930.6	4911.9	4902.5
12.5°	11400.1	10513.4	8697.8	6708.7	5446.7	4949.4	4827.4	4813.4	4846.2	4855.6	4874.4
15°	11447.0	10363.3	8012.9	5784.5	4850.9	4667.9	4719.5	4775.8	4799.3	4860.3	4813.4
17.5°	11536.1	10170.9	7168.4	5052.6	4517.8	4550.6	4639.8	4705.5	4743.0	4785.2	4724.2
20°	11583.0	9997.3	6375.6	4616.3	4400.5	4461.5	4583.5	4635.1	4682.0	4700.8	4630.4
22.5°	11540.8	9640.8	5676.6	4264.5	4287.9	4367.7	4475.6	4531.9	4503.7	4428.7	4386.4
25°	11428.2	9138.8	4949.4	4039.3	4128.4	4269.2	4353.6	4311.4	4259.8	4217.6	4203.5
27.5°	11423.5	8524.3	4424.0	3832.9	3992.4	4184.7	4156.6	4119.0	4142.5	4109.7	4072.1
30°	11447.0	7928.4	3992.4	3715.6	3893.9	3987.7	4020.5	3983.0	4011.1	3950.1	3968.9
32.5°	11325.0	7346.7	3710.9	3579.5	3776.6	3771.9	3879.8	3907.9	3842.2	3715.6	3734.3
35°	11376.6	6877.6	3471.6	3518.5	3645.2	3645.2	3729.7	3696.8	3523.2	3448.2	3466.9
37.5°	11733.2	6417.8	3354.3	3434.1	3518.5	3556.1	3527.9	3387.2	3345.0	3345.0	3354.3
40°	12070.9	6023.7	3284.0	3415.3	3401.3	3424.7	3218.3	3232.4	3232.4	3237.1	3213.6
42.5°	12371.2	5756.3	3227.7	3302.7	3326.2	3204.2	3077.6	3063.5	3096.3	3091.6	3072.9
45°	12479.1	5535.8	3147.9	3176.1	3194.8	2993.1	2932.1	2904.0	2941.5	2955.6	2974.3
47.5°	12066.3	5352.9	3058.8	3002.5	2965.0	2833.6	2753.8	2702.2	2749.2	2828.9	2847.7
50°	11536.1	5113.6	2918.0	2810.1	2730.4	2674.1	2617.8	2566.2	2599.0	2655.3	2641.3
52.5°	10752.7	4738.3	2739.8	2627.2	2491.1	2505.2	2453.6	2425.4	2444.2	2444.2	2430.1
55°	9636.1	3893.9	2439.5	2359.8	2247.2	2284.7	2294.1	2256.6	2219.0	2251.9	2223.7
57.5°	6577.3	2749.2	2176.8	2176.8	2064.2	2115.8	2111.1	2022.0	1932.9	1942.2	1923.5
60°	3804.7	2190.9	2007.9	1989.1	1871.9	1914.1	1923.5	1862.5	1726.4	1735.8	1717.0
62.5°	2162.7	1871.9	1754.6	1726.4	1703.0	1740.5	1740.5	1660.8	1543.5	1552.8	1534.1
65°	1839.0	1735.8	1566.9	1562.2	1552.8	1562.2	1524.7	1440.3	1337.0	1294.8	1299.5
67.5°	1670.1	1604.5	1440.3	1398.0	1369.9	1365.2	1294.8	1215.1	1168.2	1130.6	1125.9
70°	1463.7	1412.1	1290.1	1233.8	1205.7	1140.0	1069.6	1018.0	952.4	933.6	952.4
72.5°	1158.8	1154.1	1107.2	1046.2	985.2	933.6	872.6	802.2	741.2	727.2	694.3
75°	802.2	811.6	821.0	811.6	760.0	694.3	624.0	567.7	492.6	450.4	441.0
77.5°	525.4	539.5	553.6	534.8	502.0	441.0	394.1	323.7	267.4	234.6	229.9
80°	384.7	403.5	412.8	398.8	361.2	314.3	262.7	206.4	164.2	136.1	136.1
82.5°	295.6	314.3	323.7	300.2	262.7	225.2	187.7	145.4	112.6	89.1	84.4
85°	103.2	98.5	117.3	122.0	145.4	136.1	112.6	84.4	65.7	46.9	42.2
87.5°	28.1	28.1	32.8	32.8	28.1	23.5	23.5	23.5	18.8	14.1	14.1
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)