

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: P533648

Luminaire Tested: **GALN-SA9A-750-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-750-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34774 lumens  
Efficiency: N/A  
Efficacy: 126.9 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

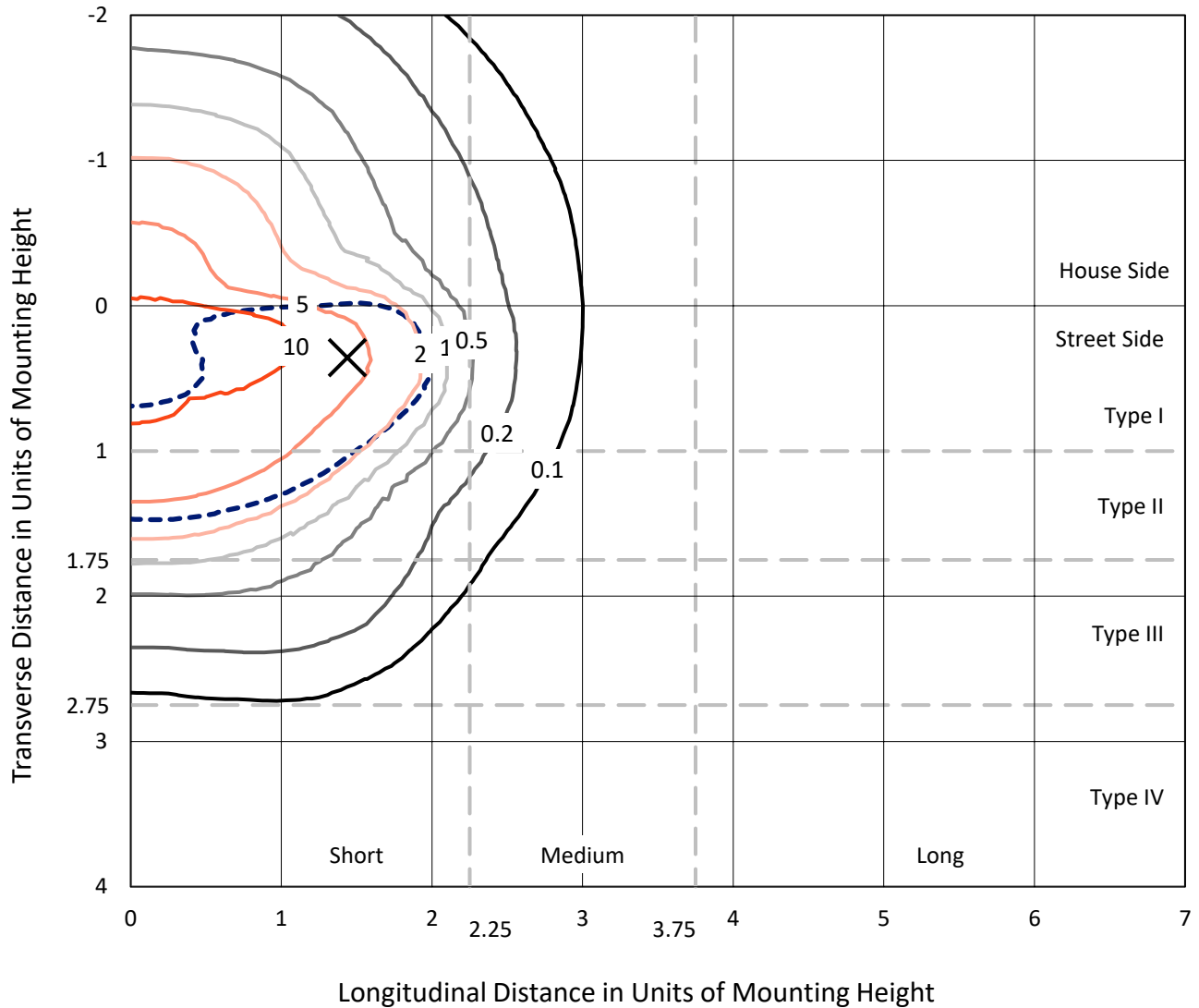
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

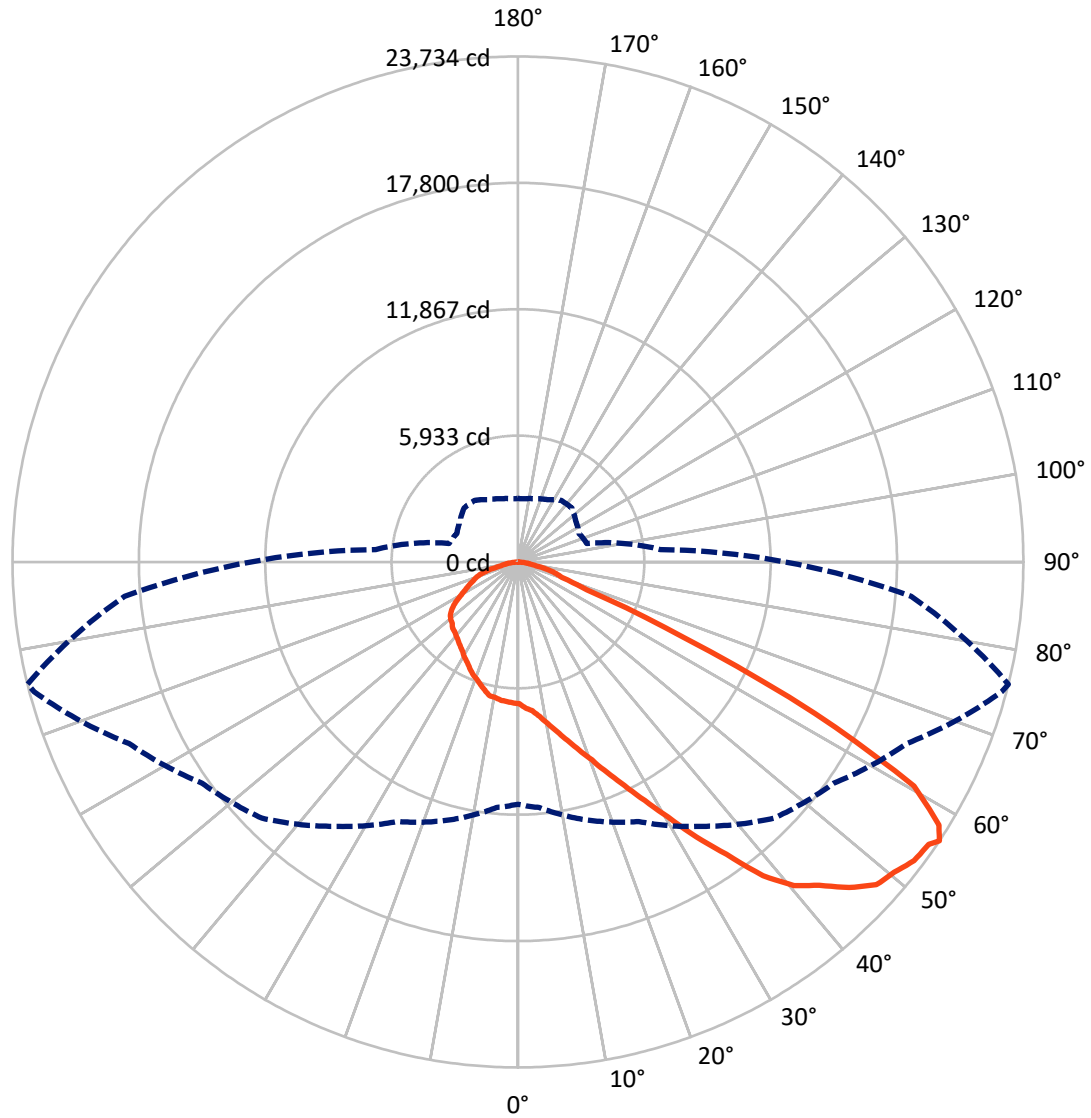
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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
<b>House Side</b>	Lumens	9349.7	0.0	9349.7
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	25424.3	0.0	25424.3
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	34774.0	0.0	34774.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	659.8	1.9
10°-20°	2072.7	6.0
20°-30°	3625.0	10.4
30°-40°	5675.6	16.3
40°-50°	8256.4	23.7
50°-60°	9074.3	26.1
60°-70°	4050.4	11.6
70°-80°	1169.9	3.4
80°-90°	189.8	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°	34774.0	100.0
0°-180°	34774.0	100.0

**Coefficient of Utilization**



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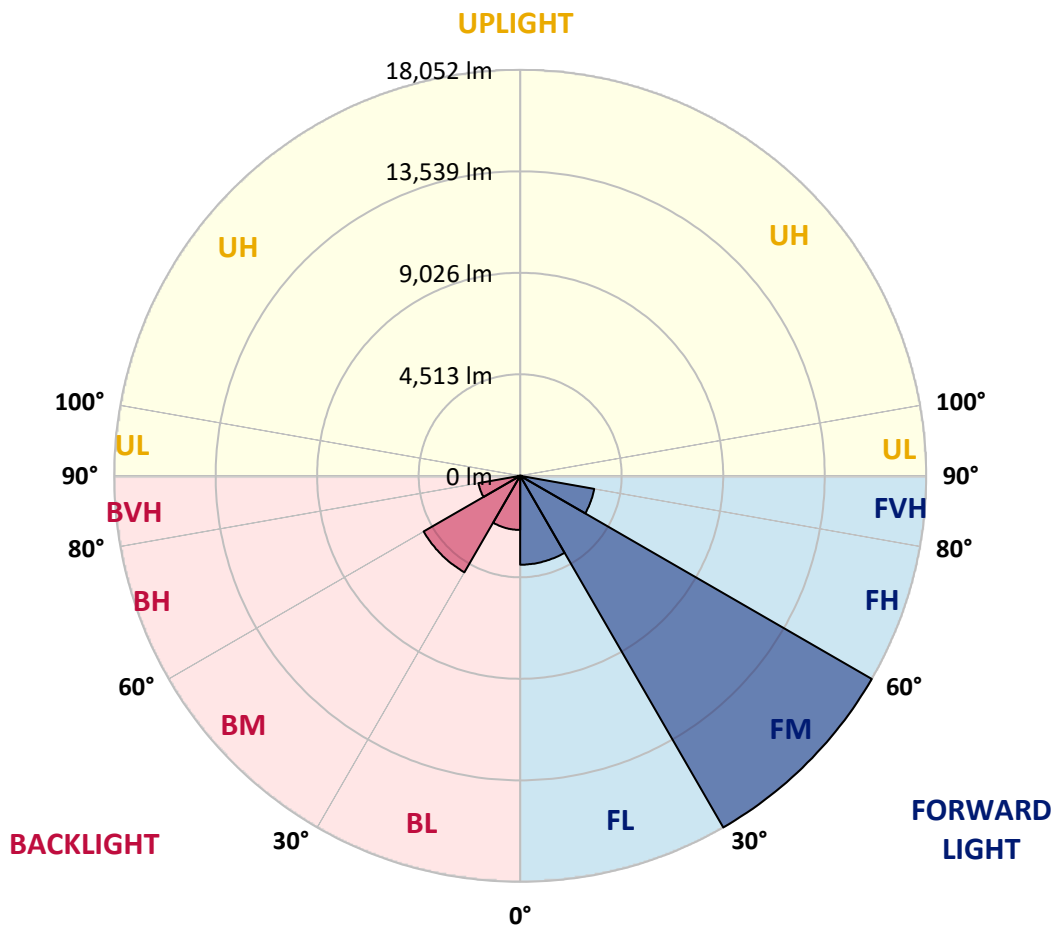
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3951.7	11.4			
FM (30°-60°)	18051.8	51.9			
FH (60°-80°)	3339.1	9.6			G2/5000
FVH (80°-90°)	81.7	0.2			G1/100
BL (0°-30°)	2405.9	6.9	B3/2500		
BM (30°-60°)	4954.6	14.2	B3/5000		
BH (60°-80°)	1881.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	108.1	0.3			G2/225
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°	55°	65°	75°	76°	85°
0°	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6
2.5°	7329.7	7212.5	7203.5	7172.0	7190.0	7108.8	7023.2	6910.5	6793.3	6865.4	6694.1
5°	7843.6	7685.9	7749.0	7640.8	7654.3	7546.1	7370.3	7239.6	7095.3	7009.7	6888.0
7.5°	8023.9	8037.5	8082.5	8064.5	7974.4	7974.4	7857.1	7627.2	7374.8	7325.2	7122.4
10°	8267.4	8271.9	8222.3	8235.8	8362.0	8303.4	8199.7	8100.6	7776.0	7717.4	7356.8
12.5°	8353.0	8271.9	8353.0	8425.1	8573.9	8655.0	8632.5	8560.4	8213.3	8172.7	7645.3
15°	8366.5	8316.9	8384.6	8546.8	8677.6	9020.2	9191.5	9141.9	8682.1	8686.6	7969.8
17.5°	8303.4	8371.0	8398.1	8537.8	8839.9	9159.9	9655.8	9723.4	9344.7	9286.1	8380.1
20°	8389.1	8339.5	8375.5	8501.8	8903.0	9403.3	10052.5	10498.7	9966.8	9926.2	8803.8
22.5°	8718.1	8650.5	8641.5	8722.7	9011.2	9529.6	10471.7	11274.1	10724.1	10746.7	9331.2
25°	8975.1	9011.2	8979.6	8975.1	9155.4	9718.9	11026.2	12198.2	11751.9	11621.2	9953.3
27.5°	9416.9	9502.5	9439.4	9525.0	9484.5	10002.9	11422.8	13221.5	12860.8	12685.0	10516.8
30°	10029.9	10075.0	10016.4	10016.4	9894.7	10399.6	11783.5	14289.8	14141.1	13902.2	11179.4
32.5°	10836.8	10904.4	10787.2	10719.6	10701.6	10990.1	12432.6	15344.7	15597.1	15394.2	12058.4
35°	11905.2	11864.6	11724.9	11661.8	11418.3	11896.2	13397.3	16557.3	17219.9	16859.3	13122.3
37.5°	12847.3	12784.2	12775.2	12423.6	12482.2	12874.4	14217.7	17476.9	18793.1	18689.5	14244.7
40°	13726.3	13784.9	13879.6	13681.3	13591.1	14023.9	15173.4	18180.1	20014.8	19974.2	15110.2
42.5°	14668.5	14614.4	14781.2	14614.4	14479.2	15092.2	16210.2	18666.9	21087.6	20754.1	16016.3
45°	16034.4	15863.1	15921.7	15935.2	15836.0	16061.4	16638.4	19018.5	21840.4	21804.4	16679.0
47.5°	17174.8	17179.3	17080.2	17003.5	16701.5	16926.9	17116.2	19239.4	22705.9	22647.3	16935.9
50°	17598.6	17540.0	17828.5	17995.3	18013.3	17553.5	17490.4	19361.1	23161.2	22904.3	17192.9
52.5°	16074.9	16129.0	16584.3	17576.0	18148.5	18198.1	17927.6	19613.6	23346.1	23292.0	17400.2
55°	12937.5	13198.9	13947.2	15092.2	16449.1	17941.2	18401.0	19875.0	23445.2	23400.2	18319.8
56°	11373.3	11576.1	12549.8	13446.9	15150.8	17008.0	18103.4	20154.5	23521.9	23733.7	18536.2
57.5°	9155.4	9389.8	10088.5	11107.3	13117.8	15232.0	17283.0	19811.9	23224.3	23305.5	18694.0
60°	5724.9	5747.5	6585.9	7257.6	8673.1	10737.7	13189.9	17237.9	21493.3	21376.1	16791.7
62.5°	3755.0	3759.5	4521.4	5071.3	5715.9	6189.3	7762.5	11431.9	15858.5	15651.2	11954.8
65°	2637.1	2695.7	3286.2	4021.0	4282.4	4034.5	3984.9	6027.0	8857.9	8560.4	6423.7
67.5°	1929.4	1933.9	2456.8	3245.6	3624.3	3069.8	2492.8	2943.6	3507.1	3498.1	2975.2
70°	1275.7	1329.8	1731.0	2425.2	2858.0	2465.8	2037.5	2105.2	2231.4	2231.4	2213.3
72.5°	743.8	793.4	1059.3	1537.2	1604.8	1541.7	1613.8	1803.1	1884.3	1879.8	1857.2
75°	423.7	446.3	504.9	640.1	797.9	942.1	1185.6	1365.9	1447.0	1496.6	1438.0
77.5°	247.9	261.5	297.5	365.1	414.7	509.4	644.6	770.8	879.0	865.5	874.5
80°	130.7	130.7	166.8	216.4	288.5	360.6	428.2	500.4	559.0	572.5	586.0
82.5°	76.6	81.1	108.2	157.8	207.4	256.9	329.1	378.7	432.8	437.3	446.3
85°	40.6	45.1	67.6	103.7	139.7	157.8	162.3	153.3	166.8	157.8	180.3
87.5°	13.5	13.5	22.5	18.0	18.0	22.5	27.0	27.0	36.1	36.1	36.1
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°	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6	6653.6
2.5°	6689.6	6689.6	6613.0	6468.7	6446.2	6387.6	6333.5	6329.0	6288.4	6252.4	6234.3
5°	6815.8	6676.1	6563.4	6432.7	6279.4	6207.3	6126.1	6036.0	5999.9	6036.0	6031.5
7.5°	6960.1	6842.9	6504.8	6261.4	6085.6	6013.4	5923.3	5828.6	5837.6	5837.6	5774.5
10°	7099.8	6942.1	6401.1	6090.1	5833.1	5779.0	5729.5	5765.5	5810.6	5819.6	5779.0
12.5°	7334.2	6978.1	6351.5	5918.8	5756.5	5639.3	5670.9	5770.0	5864.7	5837.6	5869.2
15°	7510.0	7009.7	6126.1	5743.0	5540.1	5594.2	5706.9	5774.5	5932.3	5914.3	5945.8
17.5°	7681.3	7027.7	5905.3	5508.6	5422.9	5571.7	5657.3	5851.2	5900.8	6008.9	6049.5
20°	8033.0	7063.8	5679.9	5364.3	5337.3	5508.6	5657.3	5747.5	5855.7	5950.3	5950.3
22.5°	8213.3	7045.7	5531.1	5175.0	5260.6	5368.8	5504.1	5657.3	5657.3	5747.5	5752.0
25°	8438.7	6973.6	5296.7	5084.8	5147.9	5251.6	5404.9	5350.8	5409.4	5409.4	5481.5
27.5°	8695.6	6820.3	5093.8	4922.6	5048.8	5161.5	5184.0	5147.9	5080.3	5071.3	5044.3
30°	8903.0	6631.0	4945.1	4868.5	4972.1	5035.2	4963.1	4886.5	4769.3	4760.3	4697.2
32.5°	9187.0	6396.6	4760.3	4733.2	4850.4	4854.9	4832.4	4715.2	4543.9	4471.8	4399.6
35°	9664.8	6261.4	4620.5	4661.1	4697.2	4683.6	4643.1	4516.8	4345.5	4314.0	4286.9
37.5°	10016.4	6162.2	4476.3	4525.9	4557.4	4575.4	4453.7	4314.0	4318.5	4255.4	4237.4
40°	10413.1	6099.1	4359.1	4381.6	4386.1	4444.7	4296.0	4228.3	4259.9	4219.3	4246.4
42.5°	10922.5	6117.1	4237.4	4219.3	4305.0	4282.4	4210.3	4120.2	4138.2	4016.5	4034.5
45°	11192.9	6238.8	4165.2	4084.1	4178.8	4174.3	4079.6	3993.9	3885.8	3651.3	3660.4
47.5°	11373.3	6270.4	3993.9	3939.8	4039.0	4097.6	3989.4	3791.1	3637.8	3471.0	3430.5
50°	11558.1	6329.0	3912.8	3800.1	3840.7	3980.4	3845.2	3655.9	3507.1	3358.3	3380.9
52.5°	11720.4	6441.7	3755.0	3588.2	3660.4	3813.6	3741.5	3511.6	3349.3	3227.6	3191.5
55°	12441.6	6694.1	3489.1	3272.7	3444.0	3637.8	3597.2	3317.8	3142.0	3078.8	3069.8
56°	12554.3	6703.1	3349.3	3164.5	3322.3	3579.2	3529.6	3232.1	3074.3	2975.2	2979.7
57.5°	12572.3	6595.0	3151.0	3065.3	3200.6	3493.6	3430.5	3164.5	2948.1	2858.0	2830.9
60°	11062.2	5147.9	2903.0	2848.9	3006.7	3232.1	3209.6	2979.7	2736.3	2632.6	2682.2
62.5°	7541.6	3773.1	2709.2	2700.2	2781.3	3002.2	2943.6	2736.3	2533.4	2465.8	2434.2
65°	4390.6	2862.5	2519.9	2483.8	2551.4	2668.6	2709.2	2492.8	2281.0	2235.9	2222.4
67.5°	2592.0	2366.6	2276.5	2217.9	2195.3	2267.4	2299.0	2172.8	1960.9	1897.8	1951.9
70°	2168.3	2105.2	2109.7	2010.5	1956.4	1906.8	1879.8	1767.1	1591.3	1510.1	1487.6
72.5°	1870.7	1843.7	1825.7	1735.5	1685.9	1573.2	1456.0	1343.3	1212.6	1145.0	1149.5
75°	1429.0	1420.0	1429.0	1383.9	1298.3	1208.1	1099.9	955.7	856.5	770.8	788.9
77.5°	852.0	879.0	892.6	874.5	838.5	757.3	689.7	595.0	500.4	432.8	423.7
80°	586.0	608.6	631.1	608.6	572.5	513.9	441.8	369.6	302.0	266.0	256.9
82.5°	446.3	468.8	482.3	459.8	414.7	351.6	302.0	252.4	198.3	162.3	153.3
85°	162.3	184.8	180.3	216.4	234.4	225.4	193.8	148.8	112.7	81.1	76.6
87.5°	45.1	40.6	45.1	45.1	45.1	40.6	36.1	36.1	36.1	22.5	18.0
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)