

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: P532893

Luminaire Tested: **GALN-SA8B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532893  
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-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 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: 25249 lumens  
Efficiency: N/A  
Efficacy: 77.7 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

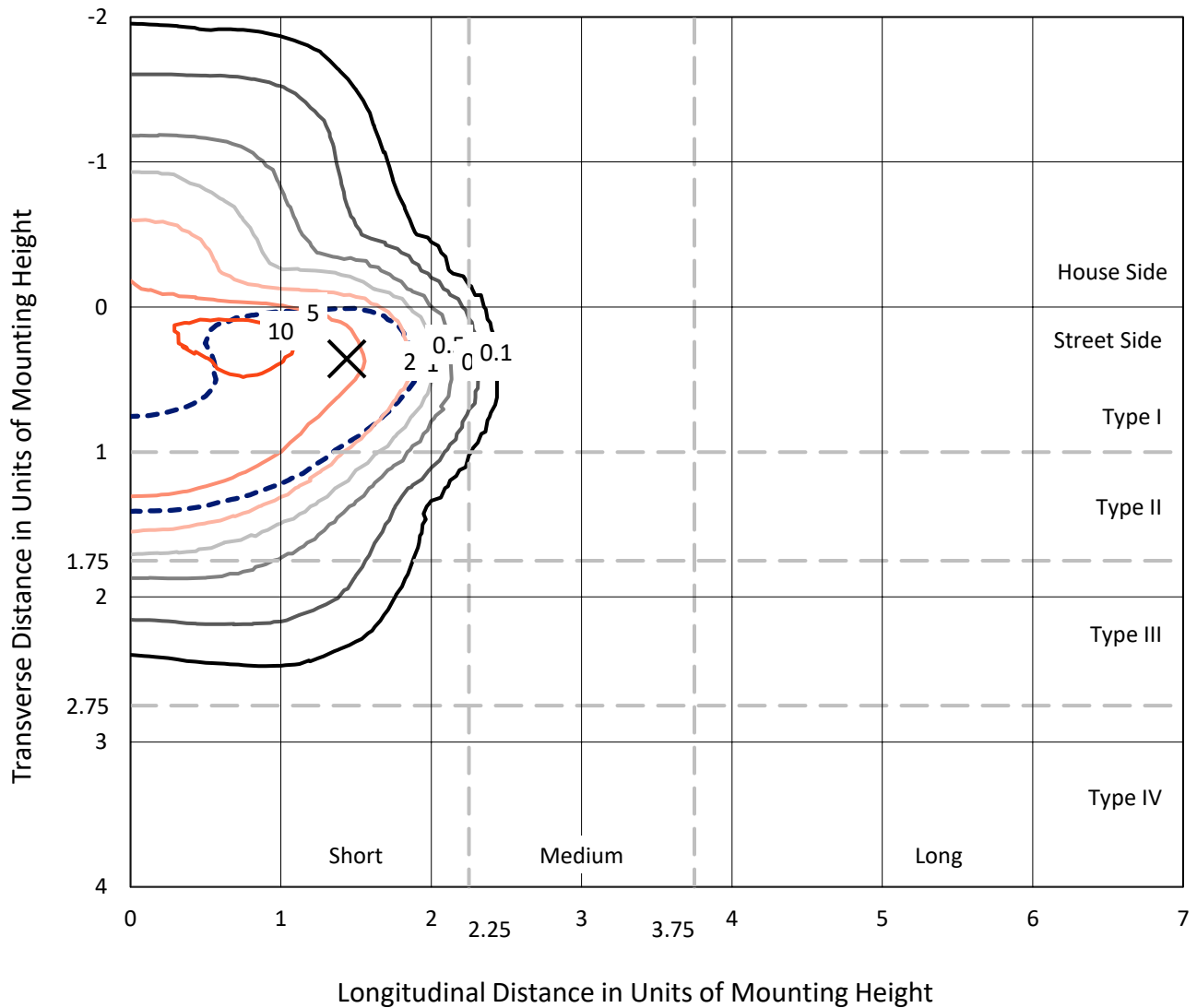
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

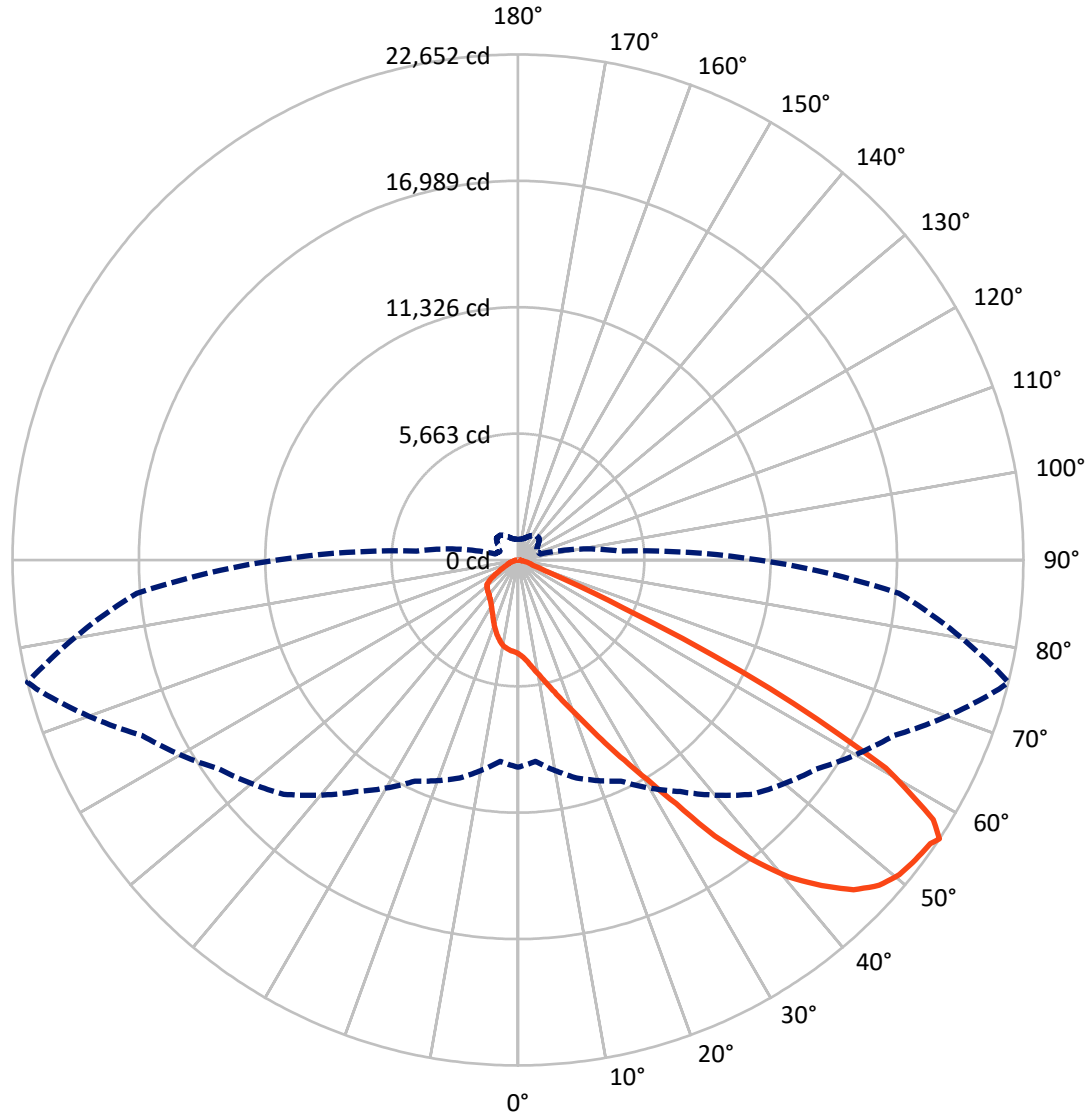
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	3966.5	0.0	3966.5
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	21282.5	0.0	21282.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	25249.0	0.0	25249.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.4	1.7
10°-20°	1360.1	5.4
20°-30°	2466.3	9.8
30°-40°	4253.2	16.8
40°-50°	6909.4	27.4
50°-60°	7282.8	28.8
60°-70°	2225.2	8.8
70°-80°	285.3	1.1
80°-90°	43.4	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°	25249.0	100.0
0°-180°	25249.0	100.0

**Coefficient of Utilization**

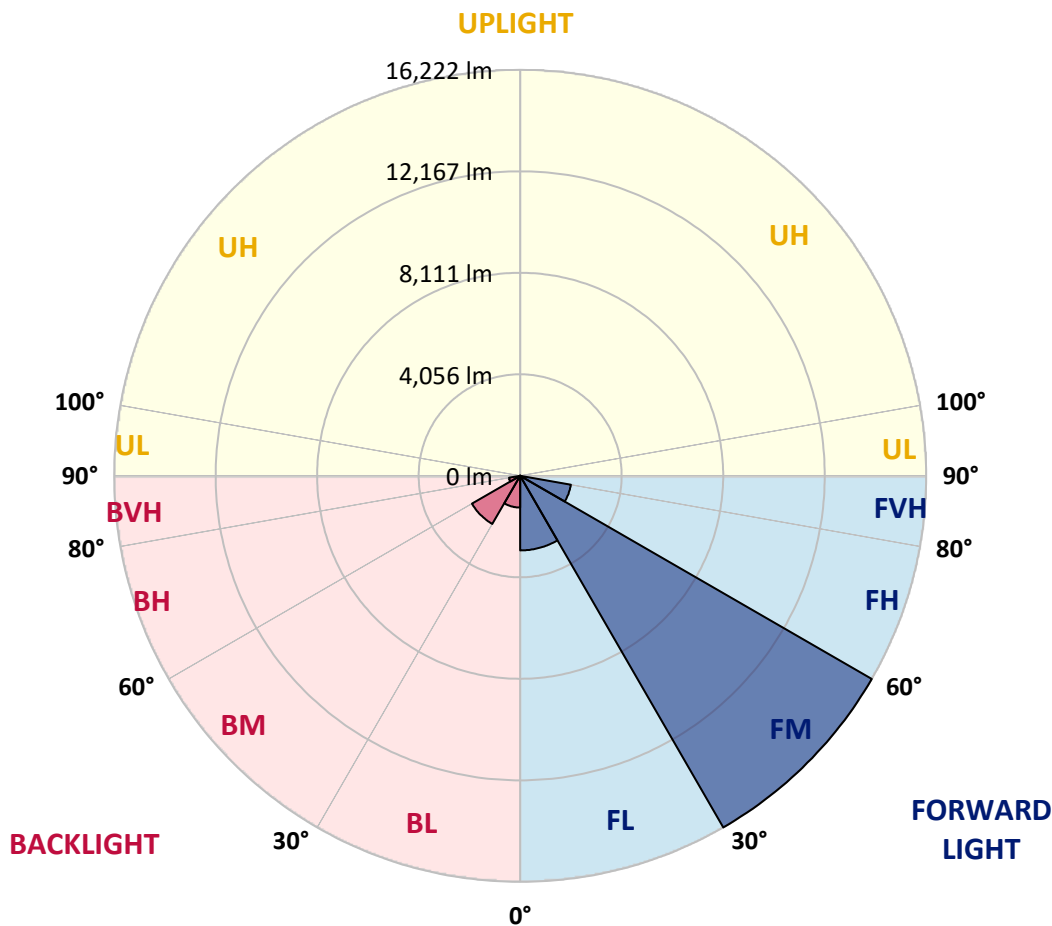


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2980.9	11.8			
FM (30°-60°)	16222.5	64.2			
FH (60°-80°)	2057.9	8.2			G2/5000
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	1268.9	5.0	B3/2500		
BM (30°-60°)	2223.0	8.8	B2/2500		
BH (60°-80°)	452.5	1.8	B1/500		G1/500
BVH (80°-90°)	22.1	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°	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7
2.5°	4840.4	4728.7	4733.3	4724.0	4710.0	4658.8	4505.3	4482.0	4379.6	4351.7	4258.6
5°	5422.1	5324.4	5380.2	5296.5	5217.3	5170.8	4919.5	4803.1	4640.2	4579.7	4449.4
7.5°	5785.2	5738.6	5720.0	5724.7	5650.2	5533.8	5422.1	5166.2	4947.4	4900.9	4626.3
10°	5962.0	5934.1	5962.0	5948.1	5980.6	5994.6	5799.1	5645.5	5324.4	5245.3	4817.1
12.5°	6003.9	6059.8	6083.0	6143.5	6222.7	6357.6	6343.7	6134.2	5706.0	5654.8	5110.3
15°	6106.3	6152.8	6129.6	6227.3	6376.2	6604.3	6725.3	6692.7	6232.0	6138.9	5450.1
17.5°	6199.4	6115.6	6194.7	6390.2	6539.1	6888.2	7181.4	7316.4	6804.4	6697.4	5761.9
20°	6325.0	6301.8	6287.8	6385.5	6650.8	7116.3	7698.0	7944.7	7446.7	7335.0	6208.7
22.5°	6706.7	6711.3	6702.0	6557.8	6748.6	7274.5	8149.5	8759.2	8214.6	8121.6	6716.0
25°	7209.3	7148.8	7102.3	6985.9	6962.7	7418.8	8605.6	9755.2	9136.2	9071.0	7265.2
27.5°	7739.9	7739.9	7600.3	7493.2	7344.3	7777.2	9024.5	10723.3	10248.5	10160.1	7744.6
30°	8317.0	8349.6	8331.0	8102.9	8009.9	8168.1	9452.7	11961.3	11523.8	11412.1	8535.8
32.5°	9168.8	9098.9	9178.1	8987.2	8712.6	8852.3	10127.5	13069.0	13180.7	13022.4	9573.7
35°	10295.1	10253.2	10202.0	9890.2	9564.4	9676.1	11081.6	14432.6	15261.1	15182.0	10620.9
37.5°	11305.0	11281.8	11239.9	11025.8	10648.8	10783.8	12166.1	15852.2	17290.3	17029.7	12100.9
40°	12366.2	12491.8	12356.9	12166.1	11821.6	12119.5	13441.3	16694.6	18998.4	18681.9	13231.9
42.5°	13804.3	13706.6	13767.1	13418.0	13231.9	13557.7	14721.2	17537.0	20324.8	19947.9	14432.6
45°	15335.6	15340.2	15177.3	15065.6	14581.6	14935.3	15507.8	18002.4	21381.4	21088.1	15340.2
47.5°	16317.6	16312.9	16489.8	16666.7	16168.7	15819.6	16043.0	18444.6	21925.9	21790.9	15670.7
50°	16164.0	16210.5	16438.6	17099.5	17360.1	16890.1	16545.6	18314.2	22172.6	22158.6	15954.6
52.5°	14060.3	14213.9	14595.5	15549.7	16862.1	17443.9	17071.6	18556.3	22293.6	22316.8	16378.1
55°	10704.6	10788.4	11514.5	12673.4	14125.5	16117.5	16862.1	18747.1	22386.7	22428.5	16890.1
56°	9285.1	9061.7	10108.9	10932.7	12668.7	14846.9	16331.6	18598.1	22330.8	22651.9	17146.0
57.5°	7009.2	6860.3	7707.3	8735.9	10406.8	12705.9	14684.0	17895.4	21953.8	21949.2	16778.4
60°	4263.2	4114.3	4765.9	5370.9	6306.4	7823.7	9922.7	14251.1	18560.9	18951.9	13585.6
62.5°	2536.5	2629.6	3271.9	3639.6	3942.1	4100.3	5133.6	8470.6	12384.8	12664.1	8428.7
65°	1689.5	1722.1	2206.1	2811.1	2946.1	2345.7	2089.7	3430.1	5370.9	5198.7	3476.7
67.5°	1042.5	1117.0	1480.0	2113.0	2341.1	1712.7	991.3	1279.9	1480.0	1480.0	1005.3
70°	633.0	670.2	986.7	1438.1	1605.7	1103.0	721.4	721.4	712.1	698.1	600.4
72.5°	302.5	325.8	502.7	740.0	754.0	581.8	558.5	609.7	595.7	591.1	498.0
75°	130.3	139.6	176.9	232.7	265.3	246.7	339.8	437.5	451.5	437.5	358.4
77.5°	41.9	46.5	65.2	83.8	88.4	107.0	144.3	181.5	209.4	195.5	176.9
80°	4.7	9.3	18.6	41.9	65.2	83.8	107.0	121.0	135.0	135.0	125.7
82.5°	4.7	4.7	18.6	37.2	60.5	79.1	102.4	116.4	135.0	139.6	130.3
85°	0.0	4.7	14.0	32.6	51.2	51.2	46.5	46.5	32.6	32.6	32.6
87.5°	0.0	0.0	4.7	4.7	4.7	9.3	9.3	9.3	9.3	9.3	9.3
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°	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7	4202.7
2.5°	4240.0	4230.7	4105.0	4025.9	3984.0	3900.2	3849.0	3811.8	3783.9	3751.3	3755.9
5°	4295.8	4263.2	4053.8	3909.5	3737.3	3644.2	3565.1	3500.0	3458.1	3448.8	3430.1
7.5°	4454.1	4281.9	3965.4	3704.7	3486.0	3392.9	3323.1	3281.2	3299.8	3257.9	3290.5
10°	4575.1	4319.1	3858.3	3481.3	3262.6	3192.8	3155.5	3188.1	3234.7	3216.0	3192.8
12.5°	4724.0	4356.3	3686.1	3267.2	3062.5	3011.3	3076.4	3136.9	3230.0	3267.2	3220.7
15°	4891.6	4398.2	3467.4	3020.6	2890.3	2932.1	3043.8	3150.9	3244.0	3290.5	3318.4
17.5°	5096.3	4384.2	3253.3	2825.1	2727.4	2848.4	2983.3	3081.1	3220.7	3290.5	3271.9
20°	5287.2	4337.7	3015.9	2629.6	2634.3	2746.0	2857.7	3015.9	3090.4	3183.5	3150.9
22.5°	5468.7	4253.9	2769.2	2494.6	2494.6	2666.9	2722.7	2825.1	2890.3	2936.8	2932.1
25°	5724.7	4095.7	2564.5	2364.3	2420.2	2531.9	2578.4	2611.0	2583.1	2620.3	2625.0
27.5°	5906.2	3932.8	2396.9	2248.0	2350.4	2434.1	2420.2	2401.6	2336.4	2285.2	2317.8
30°	6101.6	3742.0	2252.6	2168.9	2224.7	2299.2	2243.3	2187.5	2085.1	2001.3	2006.0
32.5°	6380.9	3653.5	2127.0	2075.8	2150.2	2159.5	2099.0	2015.3	1912.9	1833.8	1829.1
35°	6902.2	3597.7	2019.9	2015.3	2029.2	2033.9	1973.4	1871.0	1829.1	1763.9	1787.2
37.5°	7423.4	3569.8	1945.5	1926.8	1922.2	1926.8	1857.0	1759.3	1838.4	1833.8	1843.1
40°	8089.0	3695.4	1838.4	1815.1	1819.8	1819.8	1731.4	1703.4	1843.1	1857.0	1861.7
42.5°	8763.8	3853.7	1768.6	1694.1	1712.7	1712.7	1666.2	1633.6	1731.4	1638.3	1624.3
45°	9350.3	4086.4	1694.1	1573.1	1619.7	1642.9	1629.0	1573.1	1512.6	1354.4	1354.4
47.5°	9541.1	4291.2	1605.7	1456.8	1494.0	1596.4	1554.5	1438.1	1331.1	1200.8	1191.5
50°	9876.2	4514.6	1535.9	1321.8	1400.9	1526.6	1484.7	1368.3	1247.3	1154.2	1158.9
52.5°	10220.6	4770.5	1405.6	1163.5	1261.3	1470.7	1470.7	1340.4	1154.2	1089.1	1079.8
55°	10737.2	4761.2	1172.9	954.1	1126.3	1386.9	1410.2	1200.8	1033.2	982.0	982.0
56°	10811.7	4547.1	1056.5	893.6	1065.8	1363.7	1368.3	1163.5	986.7	930.8	930.8
57.5°	10253.2	4105.0	926.2	819.1	991.3	1321.8	1326.4	1131.0	949.5	870.3	861.0
60°	7888.9	2778.6	772.6	730.7	898.3	1191.5	1214.7	1028.6	833.1	772.6	767.9
62.5°	4454.1	1540.5	679.5	660.9	772.6	1014.6	1084.4	898.3	707.4	674.9	684.2
65°	2033.9	847.1	572.5	535.2	623.7	781.9	875.0	740.0	581.8	544.5	544.5
67.5°	744.7	577.1	488.7	423.5	437.5	507.3	567.8	479.4	386.3	330.4	344.4
70°	530.6	484.0	428.2	367.7	339.8	330.4	325.8	269.9	190.8	148.9	158.2
72.5°	428.2	400.3	358.4	311.8	265.3	223.4	190.8	139.6	88.4	60.5	55.9
75°	307.2	293.2	260.6	223.4	186.2	158.2	130.3	88.4	46.5	23.3	23.3
77.5°	158.2	158.2	153.6	139.6	116.4	93.1	74.5	51.2	27.9	9.3	9.3
80°	121.0	130.3	135.0	121.0	107.0	83.8	60.5	37.2	18.6	4.7	4.7
82.5°	116.4	135.0	144.3	125.7	107.0	79.1	60.5	37.2	18.6	4.7	4.7
85°	27.9	27.9	41.9	46.5	60.5	65.2	51.2	32.6	14.0	4.7	4.7
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	4.7	4.7	4.7	4.7	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)