

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: P533610

Luminaire Tested: **GALN-SA9A-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533610  
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-SA9A-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 615mA 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: 37410 lumens  
Efficiency: N/A  
Efficacy: 136.5 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

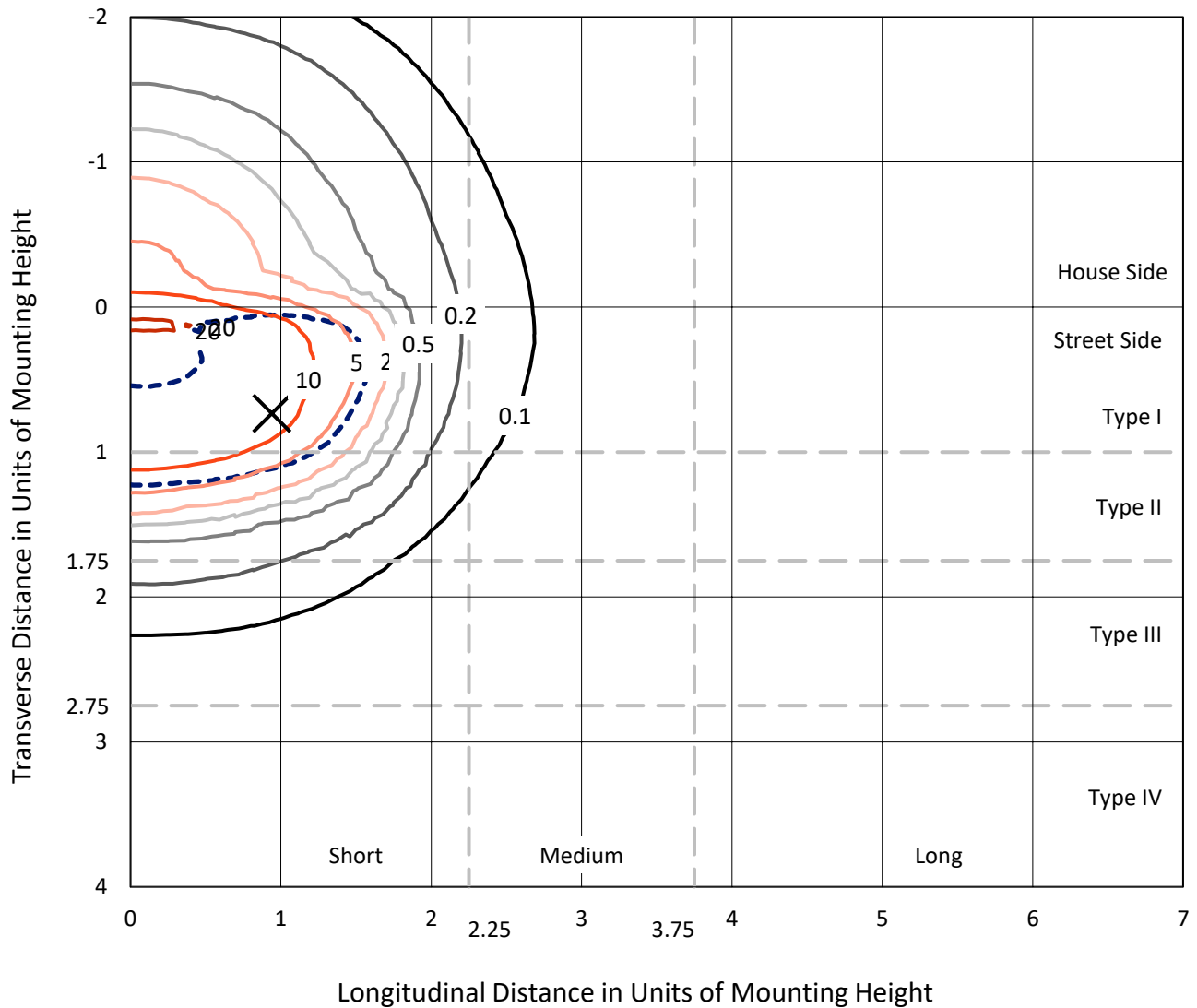
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

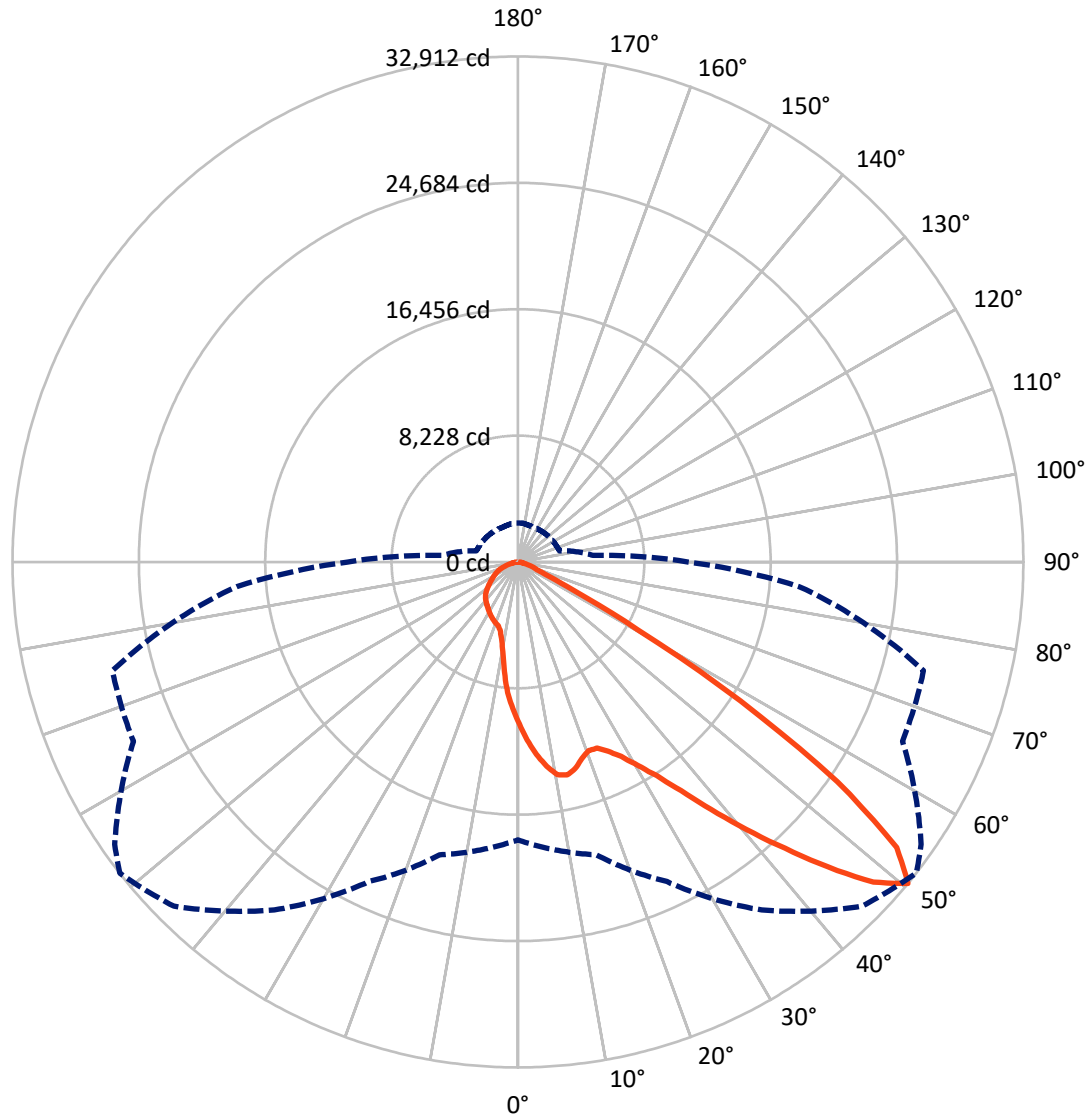
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 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	7032.2	0.0	7032.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30377.8	0.0	30377.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	37410.0	0.0	37410.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	972.0	2.6
10°-20°	2605.1	7.0
20°-30°	4388.2	11.7
30°-40°	7363.7	19.7
40°-50°	11264.6	30.1
50°-60°	8212.8	22.0
60°-70°	1827.8	4.9
70°-80°	659.3	1.8
80°-90°	116.7	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°	37410.0	100.0
0°-180°	37410.0	100.0

**Coefficient of Utilization**



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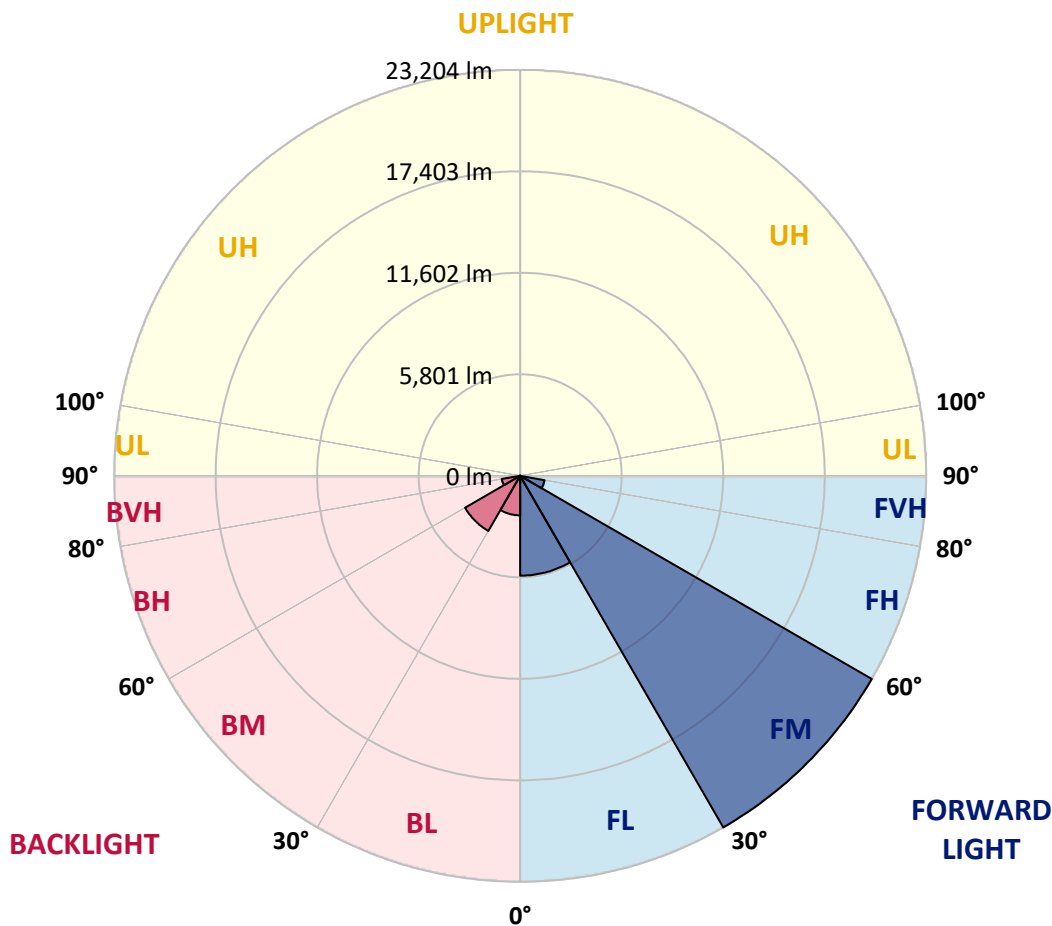
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5706.3	15.3			
FM (30°-60°)	23203.6	62.0			
FH (60°-80°)	1415.6	3.8			G1/1800
FVH (80°-90°)	52.3	0.1			G1/100
BL (0°-30°)	2258.9	6.0	B3/2500		
BM (30°-60°)	3637.5	9.7	B3/5000		
BH (60°-80°)	1071.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.4	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°	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3
2.5°	12416.3	12177.3	12204.4	12033.0	11848.2	11794.1	11604.7	11424.4	11289.2	11000.6	10734.6
5°	13570.4	13498.3	13390.1	13254.8	13115.1	12772.4	12578.6	12353.1	11857.2	11410.9	10969.1
7.5°	13737.2	13723.7	13782.3	13782.3	13831.9	13701.2	13426.2	13268.4	12740.9	12015.0	11194.5
10°	12565.0	12605.6	12889.7	13259.3	13773.3	14129.5	14084.4	14043.8	13466.7	12474.9	11460.5
12.5°	11631.8	11541.6	11708.4	12024.0	12795.0	13656.1	14237.7	14242.2	14093.4	13209.8	11654.3
15°	11104.3	11167.4	11212.5	11361.3	11942.9	12939.2	13962.7	14264.7	14918.5	13728.2	11960.9
17.5°	11442.4	11230.5	11221.5	11257.6	11555.2	12303.6	13453.2	13971.7	15369.3	14395.5	12339.6
20°	11884.3	11879.8	11753.5	11708.4	11703.9	12371.2	13119.6	13822.9	15608.2	15261.1	12722.8
22.5°	12659.7	12659.7	12452.3	12353.1	12141.2	12686.8	13164.7	13642.6	16005.0	15856.2	12907.7
25°	13958.2	13746.3	13390.1	13146.6	13024.9	13218.8	13642.6	14070.9	16352.1	16487.4	13290.9
27.5°	15157.4	14823.8	14647.9	14228.7	14066.4	13953.6	14341.4	14774.2	16757.9	17470.2	13498.3
30°	16519.0	16460.3	16144.8	15603.7	15202.5	14995.1	15351.3	15779.6	17501.8	18475.6	13976.2
32.5°	18953.5	18421.5	17993.2	17330.5	16676.7	16234.9	16586.6	16870.6	18737.1	19526.1	14499.2
35°	21581.9	21410.6	20671.2	19476.5	18475.6	18078.9	18286.3	18498.2	20175.3	21131.1	15378.3
37.5°	24165.3	23930.8	23322.2	22316.8	21099.5	20292.5	20441.3	20689.3	21789.3	23295.1	16451.3
40°	26022.8	25734.2	25427.6	25278.9	24070.6	22966.0	22880.4	22943.5	23971.4	25323.9	17641.6
42.5°	26158.0	26514.2	26608.9	27208.5	26924.4	26018.3	25490.8	25504.3	26054.3	27330.2	18845.3
45°	25874.0	25544.9	26243.7	27880.2	28818.0	29241.8	28353.6	28240.9	27343.7	28493.4	19444.9
47.5°	22893.9	22984.1	24165.3	26753.1	29462.7	31356.3	31148.9	30774.7	28033.5	28452.8	19350.3
50°	18096.9	18642.4	19738.0	22961.5	27659.3	31689.9	32911.7	32046.0	27623.3	27334.7	18385.4
52.5°	12051.1	12276.5	12997.9	17159.2	22240.2	28326.6	30882.9	31081.2	27244.5	25869.5	17163.7
55°	5365.1	5347.0	6361.4	8962.8	13953.6	21554.9	25233.8	26442.0	25788.3	24377.2	15973.4
57.5°	2272.3	2348.9	2763.7	3872.8	6861.9	13006.9	17096.0	18155.5	19832.7	20017.5	12254.0
60°	1537.4	1546.4	1659.1	1938.6	2871.9	6108.9	8967.3	10238.7	11437.9	11356.8	6501.2
62.5°	1208.3	1239.8	1325.5	1438.2	1704.2	2772.7	4012.5	4720.3	4797.0	4035.1	2466.1
65°	1032.4	1036.9	1122.6	1217.3	1334.5	1614.0	1934.1	1970.2	1992.7	1920.6	1812.4
67.5°	852.1	861.1	928.7	1036.9	1145.1	1235.3	1325.5	1370.6	1474.3	1677.1	1650.1
70°	676.3	689.8	748.4	838.6	937.8	991.9	1104.6	1145.1	1239.8	1397.6	1460.7
72.5°	514.0	518.5	568.1	631.2	721.4	775.5	870.1	915.2	978.3	1113.6	1172.2
75°	369.7	383.2	419.3	450.8	464.4	500.4	590.6	640.2	730.4	789.0	793.5
77.5°	193.9	202.9	211.9	211.9	257.0	324.6	383.2	410.3	473.4	518.5	495.9
80°	76.6	81.2	103.7	139.8	180.3	234.4	275.0	288.5	342.6	369.7	383.2
82.5°	45.1	49.6	67.6	99.2	130.7	166.8	198.4	211.9	248.0	279.5	288.5
85°	22.5	27.1	40.6	63.1	85.7	103.7	99.2	94.7	94.7	90.2	94.7
87.5°	9.0	9.0	13.5	13.5	13.5	18.0	22.5	22.5	22.5	27.1	27.1
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°	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3	10545.3
2.5°	10558.8	10378.4	10211.6	9905.1	9571.4	9476.8	9089.0	8949.3	8850.1	8732.9	8696.8
5°	10612.9	10373.9	9837.4	9219.8	8728.4	8097.2	7682.4	7236.1	6911.5	6830.3	6807.8
7.5°	10725.6	10315.3	9391.1	8457.8	7452.5	6595.9	5942.1	5590.5	5279.4	5261.4	5229.8
10°	10851.8	10139.5	8904.2	7438.9	6154.0	5360.5	4968.3	4815.0	4738.4	4720.3	4711.3
12.5°	10955.5	10103.4	8358.7	6447.1	5234.3	4756.4	4639.2	4625.7	4657.2	4666.2	4684.3
15°	11000.6	9959.2	7700.4	5558.9	4661.7	4485.9	4535.5	4589.6	4612.1	4670.8	4625.7
17.5°	11086.3	9774.3	6888.9	4855.6	4341.6	4373.2	4458.9	4522.0	4558.0	4598.6	4540.0
20°	11131.4	9607.5	6127.0	4436.3	4228.9	4287.5	4404.8	4454.3	4499.4	4517.5	4449.8
22.5°	11090.8	9264.9	5455.2	4098.2	4120.7	4197.4	4301.1	4355.2	4328.1	4256.0	4215.4
25°	10982.6	8782.5	4756.4	3881.8	3967.4	4102.7	4183.8	4143.3	4093.7	4053.1	4039.6
27.5°	10978.1	8191.8	4251.5	3683.4	3836.7	4021.5	3994.5	3958.4	3981.0	3949.4	3913.3
30°	11000.6	7619.3	3836.7	3570.7	3742.0	3832.2	3863.7	3827.7	3854.7	3796.1	3814.1
32.5°	10883.4	7060.2	3566.2	3439.9	3629.3	3624.8	3728.5	3755.5	3692.4	3570.7	3588.7
35°	10933.0	6609.4	3336.3	3381.3	3503.1	3503.1	3584.2	3552.7	3385.8	3313.7	3331.7
37.5°	11275.6	6167.6	3223.5	3300.2	3381.3	3417.4	3390.4	3255.1	3214.5	3214.5	3223.5
40°	11600.2	5788.8	3155.9	3282.1	3268.6	3291.2	3092.8	3106.3	3106.3	3110.8	3088.3
42.5°	11888.8	5531.9	3101.8	3173.9	3196.5	3079.3	2957.5	2944.0	2975.6	2971.1	2953.0
45°	11992.5	5320.0	3025.2	3052.2	3070.3	2876.4	2817.8	2790.7	2826.8	2840.3	2858.4
47.5°	11595.7	5144.1	2939.5	2885.4	2849.3	2723.1	2646.5	2596.9	2642.0	2718.6	2736.6
50°	11086.3	4914.2	2804.3	2700.6	2623.9	2569.8	2515.7	2466.1	2497.7	2551.8	2538.3
52.5°	10333.4	4553.5	2632.9	2524.7	2394.0	2407.5	2357.9	2330.9	2348.9	2348.9	2335.4
55°	9260.4	3742.0	2344.4	2267.7	2159.5	2195.6	2204.6	2168.6	2132.5	2164.1	2137.0
57.5°	6320.8	2642.0	2091.9	2091.9	1983.7	2033.3	2028.8	1943.1	1857.5	1866.5	1848.5
60°	3656.4	2105.4	1929.6	1911.6	1798.9	1839.4	1848.5	1789.9	1659.1	1668.1	1650.1
62.5°	2078.4	1798.9	1686.2	1659.1	1636.6	1672.6	1672.6	1596.0	1483.3	1492.3	1474.3
65°	1767.3	1668.1	1505.8	1501.3	1492.3	1501.3	1465.2	1384.1	1284.9	1244.3	1248.8
67.5°	1605.0	1541.9	1384.1	1343.5	1316.5	1312.0	1244.3	1167.7	1122.6	1086.5	1082.0
70°	1406.6	1357.0	1239.8	1185.7	1158.7	1095.6	1027.9	978.3	915.2	897.2	915.2
72.5°	1113.6	1109.1	1064.0	1005.4	946.8	897.2	838.6	770.9	712.3	698.8	667.3
75°	770.9	780.0	789.0	780.0	730.4	667.3	599.6	545.5	473.4	432.8	423.8
77.5°	504.9	518.5	532.0	514.0	482.4	423.8	378.7	311.1	257.0	225.4	220.9
80°	369.7	387.7	396.7	383.2	347.2	302.1	252.5	198.4	157.8	130.7	130.7
82.5°	284.0	302.1	311.1	288.5	252.5	216.4	180.3	139.8	108.2	85.7	81.2
85°	99.2	94.7	112.7	117.2	139.8	130.7	108.2	81.2	63.1	45.1	40.6
87.5°	27.1	27.1	31.6	31.6	27.1	22.5	22.5	22.5	18.0	13.5	13.5
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)