

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: P533543

Luminaire Tested: **GALN-SA9A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533543  
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-SA9A-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA 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: 20452 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

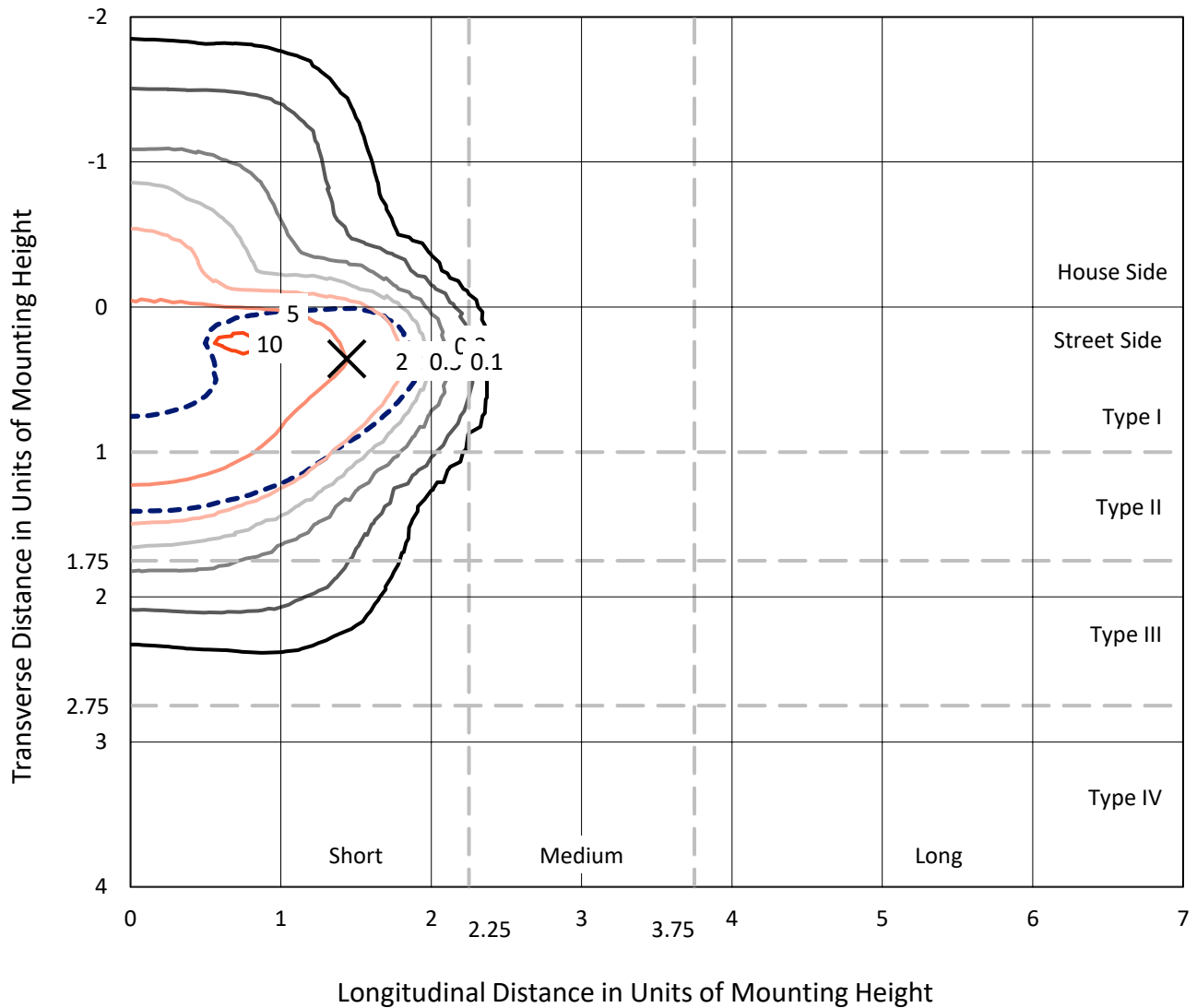
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533543  
 CATALOG NUMBER: GALN-SA9A-727-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

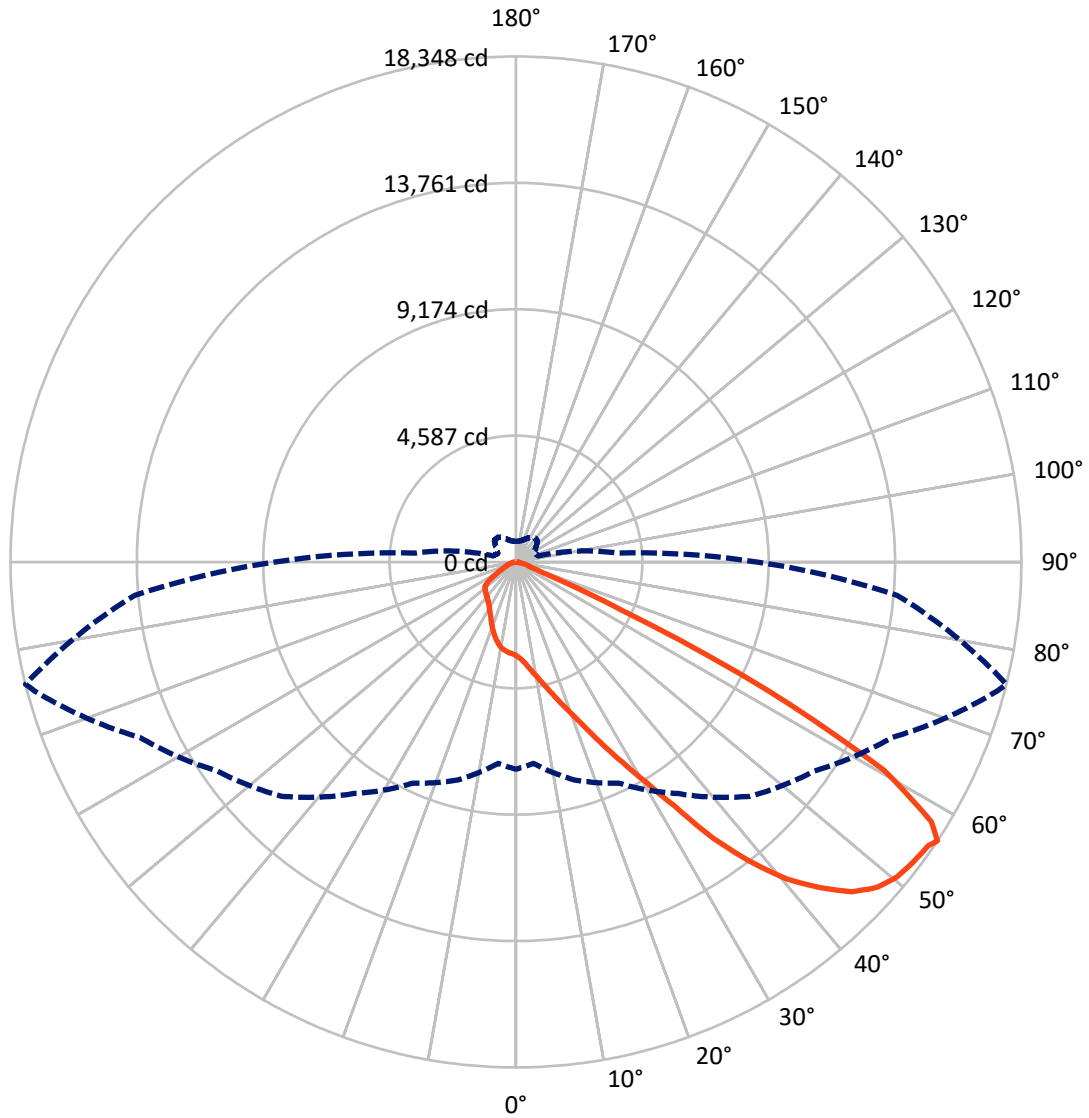
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P533543  
CATALOG NUMBER: GALN-SA9A-727-U-T2-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P533543  
 CATALOG NUMBER: GALN-SA9A-727-U-T2-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3212.9	0.0	3212.9
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	17239.1	0.0	17239.1
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	20452.0	0.0	20452.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.9	1.7
10°-20°	1101.7	5.4
20°-30°	1997.7	9.8
30°-40°	3445.1	16.8
40°-50°	5596.7	27.4
50°-60°	5899.2	28.8
60°-70°	1802.4	8.8
70°-80°	231.1	1.1
80°-90°	35.1	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°	20452.0	100.0
0°-180°	20452.0	100.0

**Coefficient of Utilization**

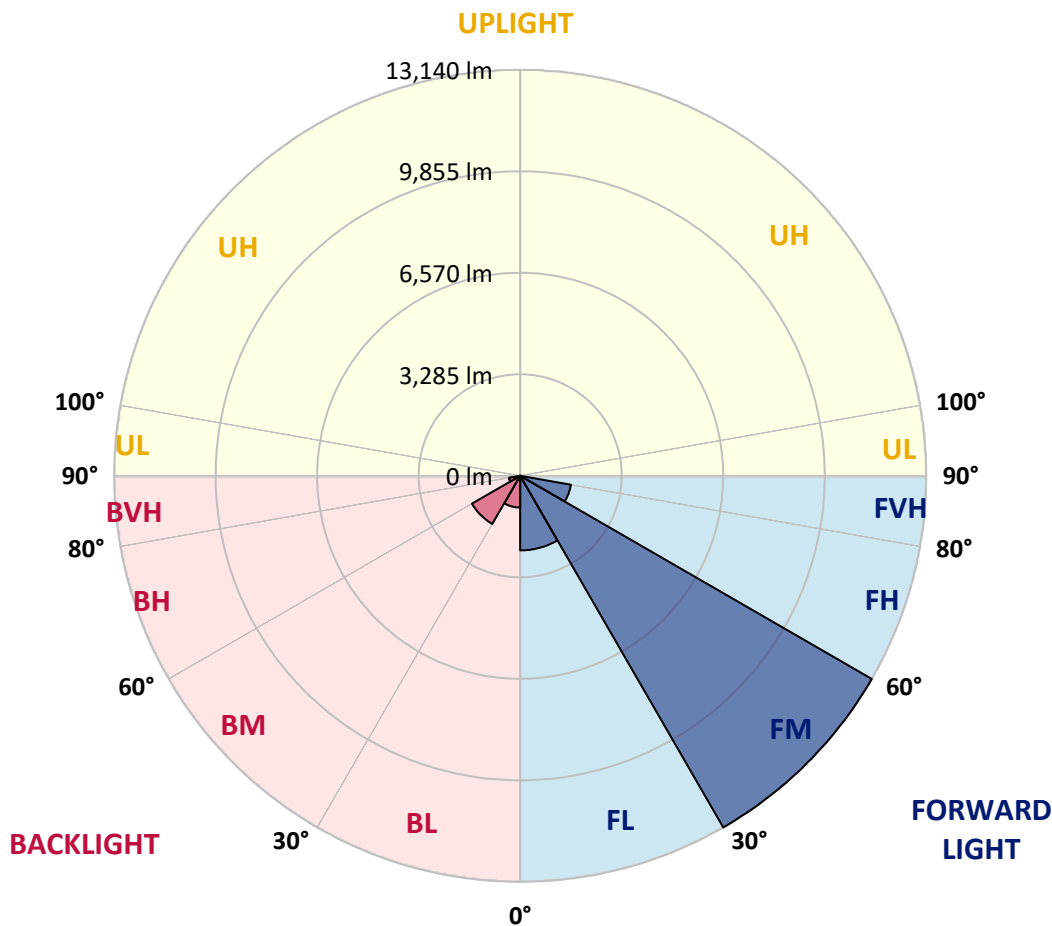


REPORT NUMBER: P533543  
 CATALOG NUMBER: GALN-SA9A-727-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2414.5	11.8			
FM (30°-60°)	13140.4	64.2			
FH (60°-80°)	1667.0	8.2			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1027.8	5.0	B3/2500		
BM (30°-60°)	1800.6	8.8	B2/2500		
BH (60°-80°)	366.5	1.8	B1/500		G1/500
BVH (80°-90°)	17.9	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-G1**  
 Type II Short





REPORT NUMBER: P533543

CATALOG NUMBER: GALN-SA9A-727-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3
2.5°	3920.7	3830.3	3834.0	3826.5	3815.2	3773.7	3649.3	3630.5	3547.5	3524.9	3449.5
5°	4392.0	4312.8	4358.1	4290.2	4226.1	4188.4	3984.8	3890.6	3758.6	3709.6	3604.1
7.5°	4686.0	4648.4	4633.3	4637.0	4576.7	4482.5	4392.0	4184.6	4007.5	3969.8	3747.3
10°	4829.3	4806.7	4829.3	4818.0	4844.4	4855.7	4697.4	4573.0	4312.8	4248.7	3901.9
12.5°	4863.2	4908.5	4927.3	4976.3	5040.4	5149.8	5138.4	4968.8	4622.0	4580.5	4139.4
15°	4946.2	4983.9	4965.0	5044.2	5164.8	5349.6	5447.6	5421.2	5048.0	4972.6	4414.6
17.5°	5021.6	4953.7	5017.8	5176.1	5296.8	5579.5	5817.0	5926.4	5511.7	5425.0	4667.2
20°	5123.4	5104.5	5093.2	5172.4	5387.3	5764.3	6235.5	6435.3	6031.9	5941.4	5029.1
22.5°	5432.5	5436.3	5428.7	5311.9	5466.4	5892.4	6601.2	7095.0	6654.0	6578.6	5440.0
25°	5839.7	5790.6	5752.9	5658.7	5639.8	6009.3	6970.6	7901.8	7400.4	7347.6	5884.9
27.5°	6269.4	6269.4	6156.3	6069.6	5949.0	6299.6	7309.9	8686.0	8301.4	8229.8	6273.2
30°	6736.9	6763.3	6748.2	6563.5	6488.1	6616.3	7656.8	9688.8	9334.4	9243.9	6914.1
32.5°	7426.8	7370.3	7434.3	7279.8	7057.3	7170.4	8203.4	10586.0	10676.5	10548.3	7754.8
35°	8339.1	8305.2	8263.7	8011.1	7747.3	7837.7	8976.3	11690.6	12361.7	12297.6	8603.0
37.5°	9157.2	9138.4	9104.4	8931.0	8625.6	8735.0	9854.7	12840.5	14005.4	13794.3	9801.9
40°	10016.8	10118.5	10009.2	9854.7	9575.7	9817.0	10887.6	13522.8	15388.9	15132.6	10718.0
42.5°	11181.7	11102.5	11151.5	10868.8	10718.0	10981.9	11924.4	14205.2	16463.4	16158.0	11690.6
45°	12422.0	12425.8	12293.8	12203.3	11811.3	12097.8	12561.5	14582.2	17319.2	17081.6	12425.8
47.5°	13217.4	13213.7	13356.9	13500.2	13096.8	12814.1	12995.0	14940.3	17760.2	17650.9	12693.4
50°	13093.0	13130.7	13315.5	13850.8	14061.9	13681.2	13402.2	14834.8	17960.0	17948.7	12923.4
52.5°	11389.0	11513.4	11822.6	12595.4	13658.5	14129.8	13828.2	15030.8	18058.1	18076.9	13266.5
55°	8670.9	8738.7	9326.9	10265.6	11441.8	13055.3	13658.5	15185.4	18133.5	18167.4	13681.2
56°	7521.1	7340.1	8188.3	8855.6	10261.8	12026.1	13228.8	15064.7	18088.2	18348.4	13888.5
57.5°	5677.5	5556.9	6243.0	7076.2	8429.6	10292.0	11894.2	14495.5	17782.9	17779.1	13590.7
60°	3453.3	3332.6	3860.4	4350.5	5108.3	6337.3	8037.5	11543.6	15034.6	15351.2	11004.5
62.5°	2054.6	2130.0	2650.3	2948.1	3193.1	3321.3	4158.3	6861.3	10031.8	10258.0	6827.4
65°	1368.5	1394.9	1787.0	2277.1	2386.4	1900.1	1692.7	2778.5	4350.5	4211.0	2816.2
67.5°	844.5	904.8	1198.8	1711.6	1896.3	1387.3	803.0	1036.7	1198.8	1198.8	814.3
70°	512.7	542.9	799.2	1164.9	1300.6	893.5	584.3	584.3	576.8	565.5	486.3
72.5°	245.0	263.9	407.2	599.4	610.7	471.2	452.4	493.9	482.6	478.8	403.4
75°	105.6	113.1	143.3	188.5	214.9	199.8	275.2	354.4	365.7	354.4	290.3
77.5°	33.9	37.7	52.8	67.9	71.6	86.7	116.9	147.0	169.6	158.3	143.3
80°	3.8	7.5	15.1	33.9	52.8	67.9	86.7	98.0	109.3	109.3	101.8
82.5°	3.8	3.8	15.1	30.2	49.0	64.1	82.9	94.2	109.3	113.1	105.6
85°	0.0	3.8	11.3	26.4	41.5	41.5	37.7	37.7	26.4	26.4	26.4
87.5°	0.0	0.0	3.8	3.8	3.8	7.5	7.5	7.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533543

CATALOG NUMBER: GALN-SA9A-727-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3	3404.3
2.5°	3434.4	3426.9	3325.1	3261.0	3227.1	3159.2	3117.7	3087.6	3065.0	3038.6	3042.4
5°	3479.7	3453.3	3283.6	3166.8	3027.3	2951.9	2887.8	2835.0	2801.1	2793.5	2778.5
7.5°	3607.8	3468.4	3212.0	3000.9	2823.7	2748.3	2691.7	2657.8	2672.9	2639.0	2665.4
10°	3705.9	3498.5	3125.3	2819.9	2642.7	2586.2	2556.0	2582.4	2620.1	2605.0	2586.2
12.5°	3826.5	3528.7	2985.8	2646.5	2480.6	2439.2	2491.9	2540.9	2616.3	2646.5	2608.8
15°	3962.2	3562.6	2808.6	2446.7	2341.1	2375.1	2465.5	2552.3	2627.7	2665.4	2688.0
17.5°	4128.1	3551.3	2635.2	2288.4	2209.2	2307.2	2416.5	2495.7	2608.8	2665.4	2650.3
20°	4282.7	3513.6	2442.9	2130.0	2133.8	2224.3	2314.8	2442.9	2503.2	2578.6	2552.3
22.5°	4429.7	3445.7	2243.1	2020.7	2020.7	2160.2	2205.4	2288.4	2341.1	2378.8	2375.1
25°	4637.0	3317.6	2077.2	1915.1	1960.4	2050.9	2088.6	2114.9	2092.3	2122.5	2126.3
27.5°	4784.1	3185.6	1941.5	1820.9	1903.8	1971.7	1960.4	1945.3	1892.5	1851.0	1877.4
30°	4942.4	3031.0	1824.7	1756.8	1802.0	1862.4	1817.1	1771.9	1688.9	1621.1	1624.8
32.5°	5168.6	2959.4	1722.9	1681.4	1741.7	1749.3	1700.2	1632.4	1549.5	1485.4	1481.6
35°	5590.8	2914.2	1636.2	1632.4	1643.7	1647.5	1598.5	1515.5	1481.6	1428.8	1447.7
37.5°	6013.1	2891.6	1575.8	1560.8	1557.0	1560.8	1504.2	1425.0	1489.1	1485.4	1492.9
40°	6552.2	2993.3	1489.1	1470.3	1474.1	1474.1	1402.4	1379.8	1492.9	1504.2	1508.0
42.5°	7098.8	3121.5	1432.6	1372.3	1387.3	1387.3	1349.6	1323.3	1402.4	1327.0	1315.7
45°	7573.8	3310.0	1372.3	1274.2	1311.9	1330.8	1319.5	1274.2	1225.2	1097.1	1097.1
47.5°	7728.4	3475.9	1300.6	1180.0	1210.2	1293.1	1259.2	1164.9	1078.2	972.6	965.1
50°	7999.8	3656.9	1244.1	1070.7	1134.8	1236.5	1202.6	1108.4	1010.3	934.9	938.7
52.5°	8278.8	3864.2	1138.5	942.5	1021.7	1191.3	1191.3	1085.7	934.9	882.2	874.6
55°	8697.3	3856.7	950.0	772.8	912.3	1123.4	1142.3	972.6	836.9	795.5	795.5
56°	8757.6	3683.2	855.8	723.8	863.3	1104.6	1108.4	942.5	799.2	754.0	754.0
57.5°	8305.2	3325.1	750.2	663.5	803.0	1070.7	1074.4	916.1	769.1	705.0	697.4
60°	6390.1	2250.7	625.8	591.9	727.6	965.1	984.0	833.2	674.8	625.8	622.0
62.5°	3607.8	1247.9	550.4	535.3	625.8	821.8	878.4	727.6	573.0	546.6	554.2
65°	1647.5	686.1	463.7	433.5	505.2	633.4	708.8	599.4	471.2	441.1	441.1
67.5°	603.2	467.5	395.8	343.1	354.4	410.9	459.9	388.3	312.9	267.7	279.0
70°	429.8	392.1	346.8	297.8	275.2	267.7	263.9	218.7	154.6	120.6	128.2
72.5°	346.8	324.2	290.3	252.6	214.9	181.0	154.6	113.1	71.6	49.0	45.2
75°	248.8	237.5	211.1	181.0	150.8	128.2	105.6	71.6	37.7	18.8	18.8
77.5°	128.2	128.2	124.4	113.1	94.2	75.4	60.3	41.5	22.6	7.5	7.5
80°	98.0	105.6	109.3	98.0	86.7	67.9	49.0	30.2	15.1	3.8	3.8
82.5°	94.2	109.3	116.9	101.8	86.7	64.1	49.0	30.2	15.1	3.8	3.8
85°	22.6	22.6	33.9	37.7	49.0	52.8	41.5	26.4	11.3	3.8	3.8
87.5°	7.5	7.5	7.5	7.5	7.5	7.5	3.8	3.8	3.8	3.8	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)