

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: P530036

Luminaire Tested: **GALN-SA5B-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20941 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

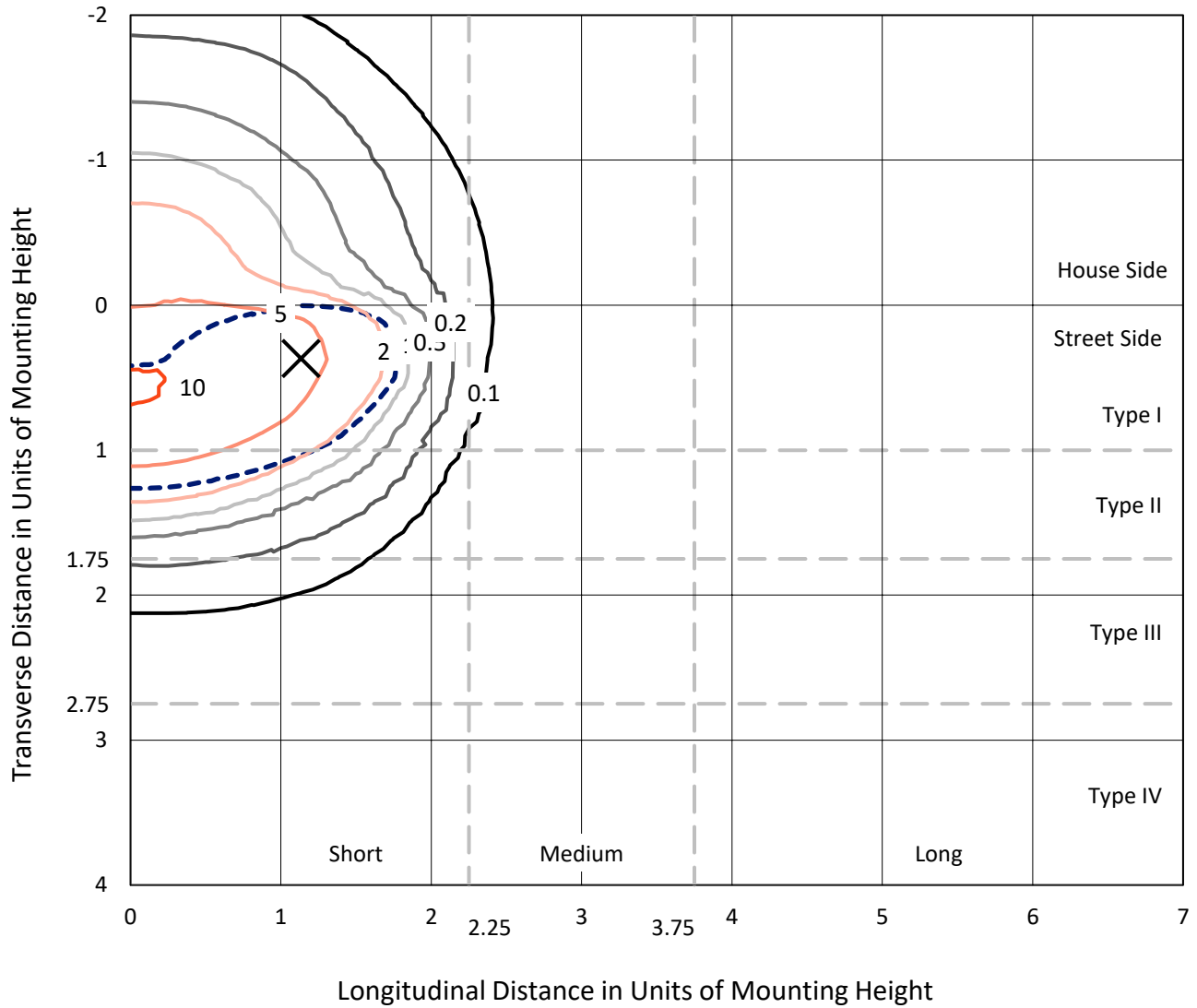
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

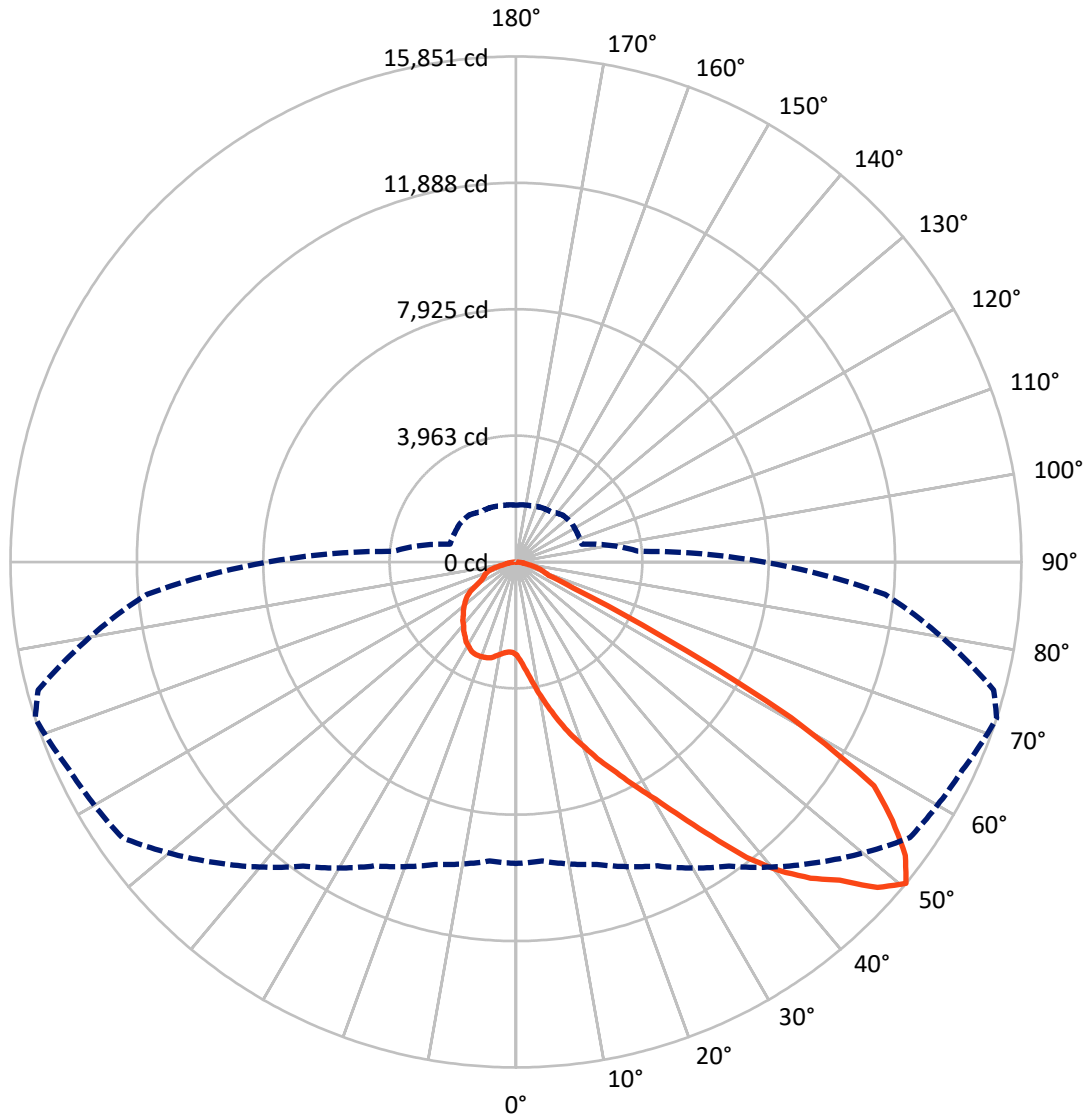
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4797.7	0.0	4797.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16143.3	0.0	16143.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	20941.0	0.0	20941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	1.6
10°-20°	1281.9	6.1
20°-30°	2485.4	11.9
30°-40°	4117.5	19.7
40°-50°	5761.3	27.5
50°-60°	4860.4	23.2
60°-70°	1481.4	7.1
70°-80°	519.7	2.5
80°-90°	90.3	0.4
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°	20941.0	100.0
0°-180°	20941.0	100.0

Coefficient of Utilization



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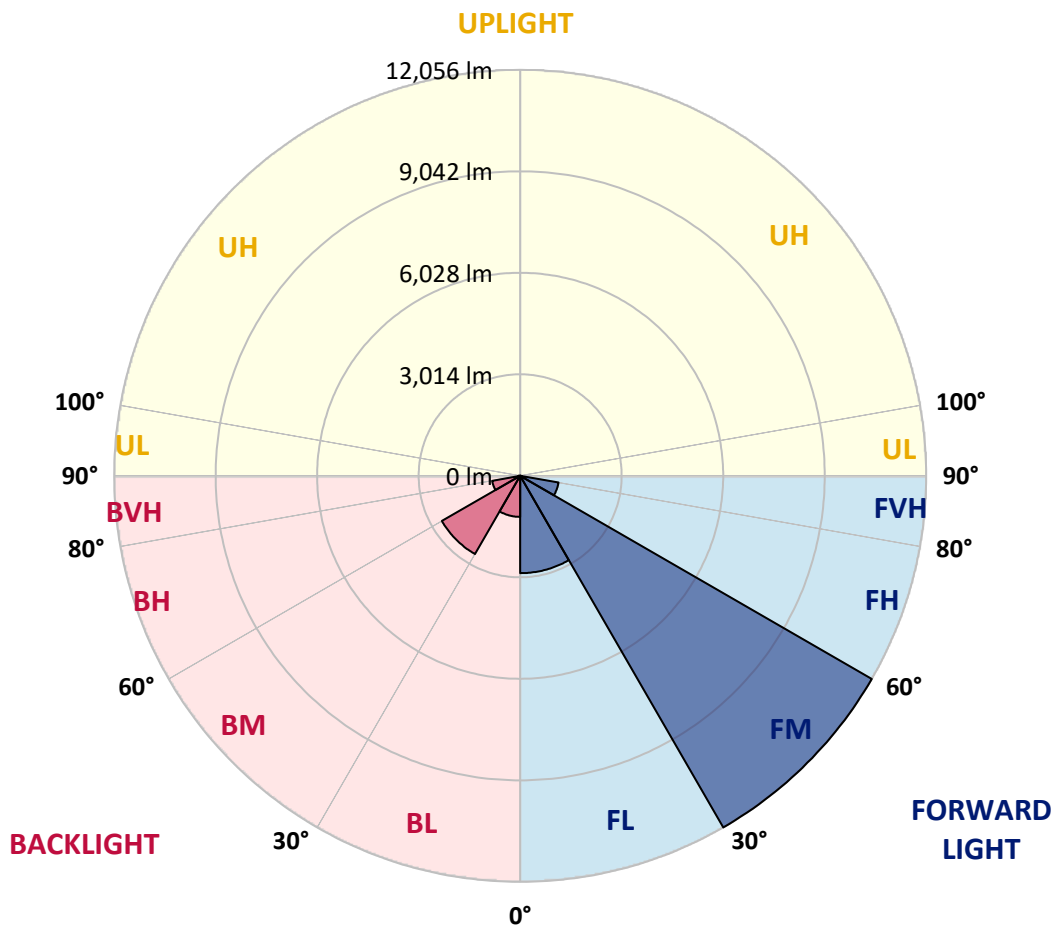
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.6	13.8			
FM (30°-60°)	12056.3	57.6			
FH (60°-80°)	1155.9	5.5			G1/1800
FVH (80°-90°)	40.5	0.2			G1/100
BL (0°-30°)	1219.6	5.8	B3/2500		
BM (30°-60°)	2683.0	12.8	B3/5000		
BH (60°-80°)	845.3	4.0	B2/1000		G2/1000
BVH (80°-90°)	49.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2
2.5°	3749.6	3726.2	3656.3	3632.9	3550.0	3399.7	3347.9	3195.0	3130.2	3070.6	3000.7
5°	4742.0	4633.2	4625.4	4493.2	4301.5	4190.1	3858.4	3635.5	3430.8	3327.2	3135.4
7.5°	5374.3	5376.9	5376.9	5268.0	5115.1	4832.7	4534.7	4133.1	3824.7	3671.8	3345.3
10°	5975.4	5923.6	5895.1	5884.7	5781.1	5506.4	5187.7	4690.2	4267.8	4089.0	3503.4
12.5°	6400.4	6356.4	6421.1	6387.5	6312.3	6133.5	5832.9	5265.4	4736.8	4495.8	3757.3
15°	6602.5	6633.6	6685.4	6778.7	6745.0	6677.7	6346.0	5856.2	5242.1	4970.0	3982.8
17.5°	6913.5	6828.0	6890.2	7006.8	7100.0	7069.0	6879.8	6283.8	5742.2	5408.0	4285.9
20°	7131.1	7081.9	7113.0	7247.7	7317.7	7493.9	7395.5	6843.5	6221.6	5869.2	4643.5
22.5°	7753.0	7680.5	7579.4	7600.2	7626.1	7750.5	7773.8	7457.6	6778.7	6405.6	4983.0
25°	8520.1	8452.7	8333.5	8211.7	8136.6	8113.2	8193.6	7939.6	7312.5	6926.4	5348.4
27.5°	9364.8	9250.8	9175.6	8924.3	8722.2	8691.1	8652.2	8514.9	7944.8	7527.6	5760.4
30°	10186.2	10095.5	9994.5	9592.8	9382.9	9349.3	9157.5	9196.4	8631.5	8167.6	6226.8
32.5°	10808.1	10815.9	10585.3	10282.1	10085.2	9906.4	9836.4	9947.8	9512.5	9139.4	6747.6
35°	11310.8	11334.2	11113.9	10839.2	10626.8	10751.1	10720.0	10771.9	10564.6	10108.5	7354.0
37.5°	11800.6	11684.0	11448.2	11316.0	11204.6	11409.3	11673.6	11717.7	11756.5	11220.1	8058.8
40°	11880.9	11891.3	11753.9	11847.2	11707.3	12015.7	12629.8	12572.8	12730.9	12261.8	8823.2
42.5°	11766.9	11790.2	11844.6	11976.8	12313.7	12684.2	13596.3	13363.1	13554.9	13137.7	9566.9
45°	11580.3	11484.5	11551.8	12054.5	12637.6	13461.6	14480.0	14298.6	14236.4	13886.6	10453.1
47.5°	10688.9	10787.4	10997.3	11616.6	12492.5	13596.3	15107.0	15065.6	15252.1	15006.0	11259.0
50°	9452.9	9414.0	9818.3	10515.3	11645.1	13332.0	15073.4	15449.1	15850.7	15508.7	11619.2
52.5°	7079.3	7286.6	7633.8	8499.3	10111.1	11891.3	14337.4	14964.5	15291.0	15218.5	11329.0
55°	4475.1	4537.3	4747.2	5775.9	7227.0	9543.6	12290.3	13744.0	14327.1	14599.2	11062.1
57.5°	2174.1	2057.5	2314.0	3140.6	4174.5	6418.5	9478.8	11971.6	13238.7	13731.1	10481.6
60°	1135.0	1179.0	1280.1	1575.5	2158.5	3332.4	5908.1	7978.5	9914.2	10670.8	7944.8
62.5°	940.6	956.2	1023.5	1171.2	1435.6	1917.5	3016.2	3889.5	5055.5	5737.0	4519.2
65°	798.1	805.9	878.4	976.9	1145.3	1350.0	1552.2	1624.7	1966.8	2018.6	1606.6
67.5°	666.0	673.7	751.5	844.8	953.6	1008.0	1059.8	1054.6	1093.5	1078.0	1075.4
70°	513.1	520.8	601.2	699.6	754.1	723.0	883.6	919.9	935.4	948.4	969.1
72.5°	370.5	386.1	448.3	518.3	489.7	562.3	728.1	782.6	803.3	811.1	837.0
75°	269.5	274.7	290.2	269.5	311.0	391.3	513.1	580.4	606.4	614.1	653.0
77.5°	119.2	121.8	124.4	155.5	199.5	243.6	305.8	360.2	396.5	406.8	417.2
80°	62.2	64.8	80.3	106.2	142.5	178.8	222.8	253.9	277.3	279.9	290.2
82.5°	38.9	41.5	57.0	75.1	101.1	132.2	163.2	189.2	207.3	209.9	212.5
85°	18.1	23.3	33.7	46.6	67.4	85.5	88.1	75.1	80.3	82.9	77.7
87.5°	5.2	7.8	10.4	7.8	10.4	10.4	13.0	15.5	15.5	15.5	18.1
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°	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2	2915.2
2.5°	2961.8	2938.5	2847.8	2814.1	2726.0	2741.6	2694.9	2692.3	2682.0	2679.4	2676.8
5°	3034.4	2961.8	2853.0	2770.1	2720.8	2715.6	2682.0	2682.0	2692.3	2700.1	2682.0
7.5°	3153.6	3070.6	2886.7	2808.9	2764.9	2757.1	2733.8	2715.6	2739.0	2731.2	2710.5
10°	3290.9	3145.8	2951.4	2884.1	2811.5	2793.4	2793.4	2801.2	2762.3	2775.2	2754.5
12.5°	3443.8	3249.4	3034.4	2956.6	2871.1	2860.7	2855.6	2798.6	2819.3	2808.9	2757.1
15°	3638.1	3368.6	3140.6	3008.5	2935.9	2889.3	2821.9	2811.5	2798.6	2772.6	2749.3
17.5°	3848.0	3498.2	3189.8	3024.0	2915.2	2881.5	2829.7	2775.2	2736.4	2741.6	2723.4
20°	4026.8	3617.4	3208.0	3039.5	2899.6	2834.8	2754.5	2720.8	2679.4	2676.8	2674.2
22.5°	4239.3	3778.1	3233.9	2998.1	2853.0	2785.6	2731.2	2671.6	2643.1	2606.8	2624.9
25°	4493.2	3840.2	3239.1	2974.8	2819.3	2700.1	2671.6	2606.8	2596.4	2544.6	2555.0
27.5°	4677.2	3873.9	3197.6	2902.2	2741.6	2650.9	2599.0	2552.4	2534.3	2495.4	2485.0
30°	4923.4	3925.8	3109.5	2811.5	2663.8	2562.8	2531.7	2521.3	2469.5	2428.0	2422.8
32.5°	5203.2	3959.4	3052.5	2718.2	2583.5	2505.7	2521.3	2472.1	2407.3	2371.0	2360.6
35°	5426.1	3972.4	2910.0	2612.0	2529.1	2479.8	2461.7	2451.3	2358.0	2324.4	2298.4
37.5°	5765.6	3943.9	2790.8	2536.8	2469.5	2451.3	2435.8	2365.8	2259.6	2210.3	2174.1
40°	6162.0	3936.1	2637.9	2430.6	2412.5	2433.2	2386.5	2277.7	2130.0	2075.6	2049.7
42.5°	6542.9	3990.5	2542.0	2373.6	2350.3	2358.0	2293.3	2130.0	2057.5	2026.4	1984.9
45°	7180.4	4104.6	2384.0	2285.5	2275.1	2269.9	2192.2	2021.2	1979.7	1940.9	1933.1
47.5°	7755.6	4029.4	2282.9	2194.8	2205.2	2176.7	2010.8	1956.4	1909.8	1870.9	1857.9
50°	7789.3	3850.6	2140.4	2124.8	2127.4	2078.2	1920.1	1883.8	1824.2	1798.3	1780.2
52.5°	7613.1	3557.8	2008.2	2013.4	2021.2	1940.9	1808.7	1782.8	1733.6	1697.3	1686.9
55°	7118.2	3101.7	1878.7	1899.4	1920.1	1767.2	1725.8	1661.0	1622.1	1570.3	1572.9
57.5°	6270.8	2498.0	1697.3	1731.0	1775.0	1606.6	1575.5	1495.2	1438.1	1396.7	1391.5
60°	4203.0	1777.6	1425.2	1438.1	1536.6	1469.2	1466.7	1386.3	1308.6	1272.3	1251.6
62.5°	2479.8	1357.8	1230.8	1217.9	1215.3	1254.2	1319.0	1290.4	1189.4	1119.4	1140.2
65°	1298.2	1173.8	1145.3	1101.3	1075.4	1065.0	1114.2	1127.2	1059.8	984.7	979.5
67.5°	1090.9	1090.9	1067.6	1052.1	1015.8	971.7	940.6	899.2	888.8	868.1	842.2
70°	992.5	1018.4	1010.6	974.3	943.2	894.0	813.7	746.3	681.5	658.2	673.7
72.5°	865.5	891.4	891.4	873.3	831.8	756.6	678.9	601.2	546.8	505.3	500.1
75°	666.0	678.9	710.0	689.3	634.9	588.2	507.9	427.6	375.7	336.9	329.1
77.5°	425.0	445.7	445.7	443.1	404.2	360.2	308.4	251.4	212.5	184.0	176.2
80°	282.4	295.4	305.8	295.4	269.5	235.8	196.9	158.1	129.6	106.2	101.1
82.5°	207.3	222.8	230.6	220.3	194.3	168.4	139.9	111.4	82.9	64.8	59.6
85°	80.3	82.9	93.3	111.4	108.8	106.2	85.5	62.2	46.6	33.7	31.1
87.5°	20.7	18.1	20.7	20.7	18.1	15.5	15.5	15.5	15.5	7.8	10.4
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)