

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: P529854

Luminaire Tested: **GALN-SA5A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529854
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-SA5A-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA 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: 18747 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

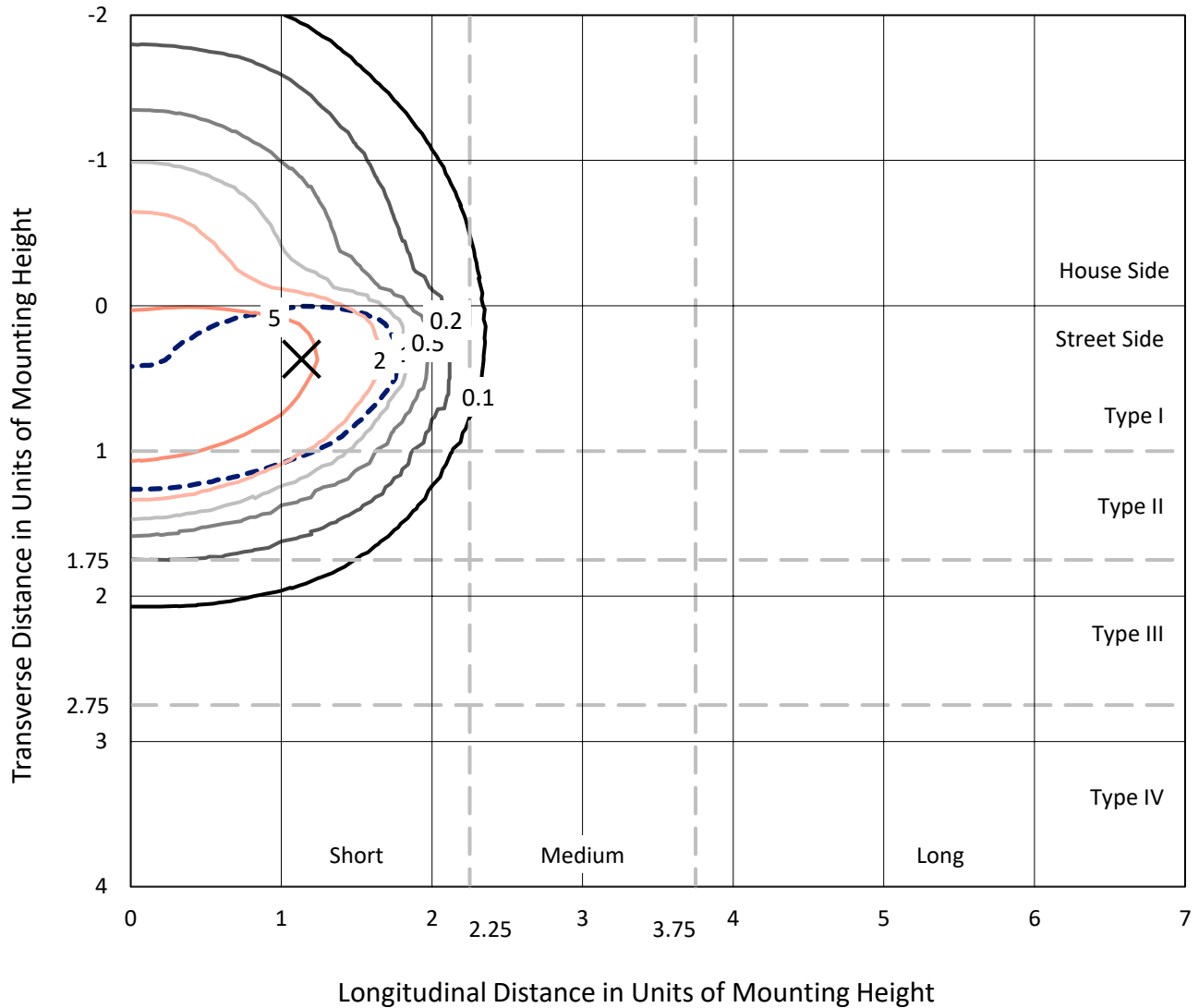
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

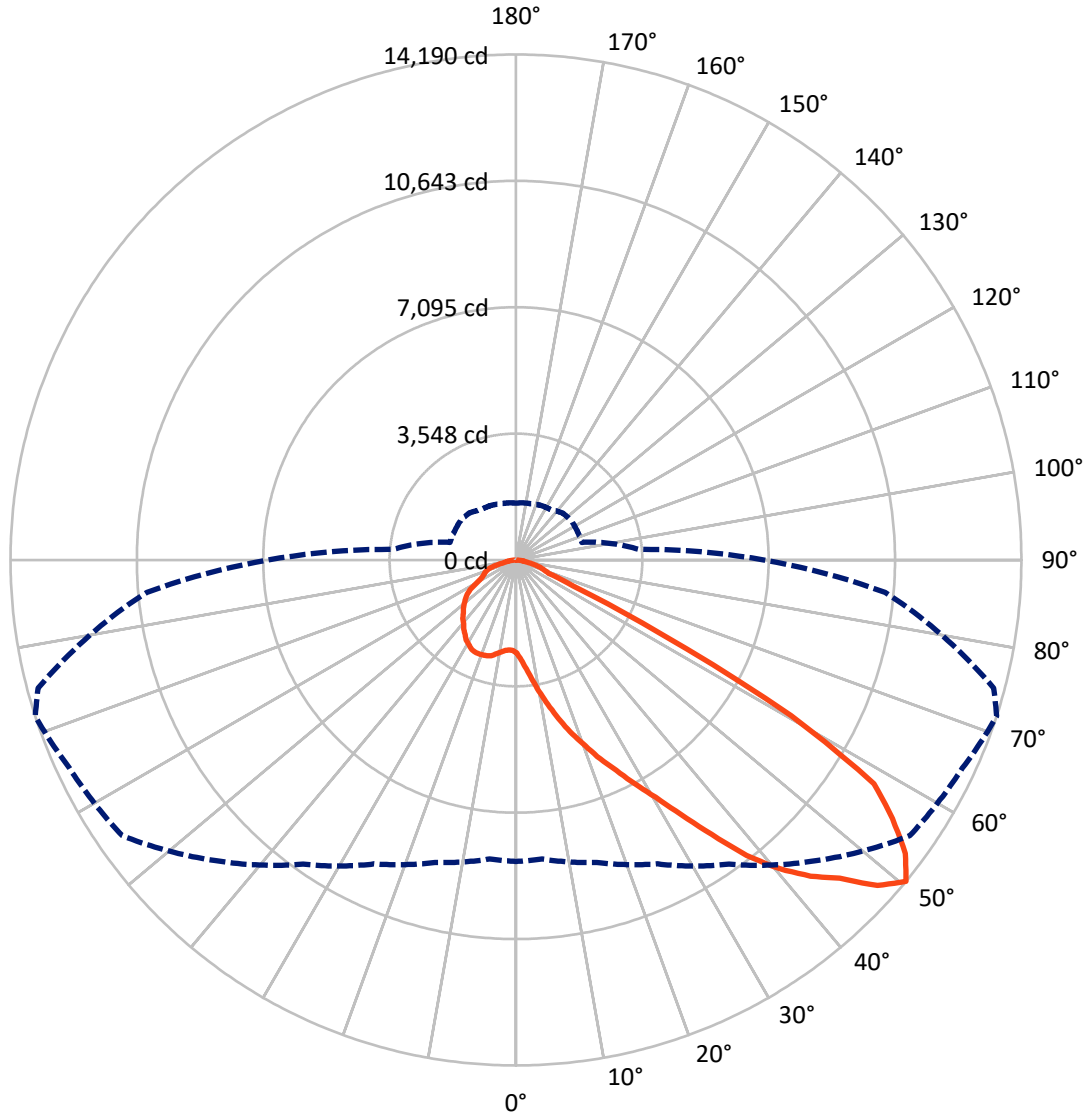
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	4295.1	0.0	4295.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14451.9	0.0	14451.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	18747.0	0.0	18747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	1.6
10°-20°	1147.6	6.1
20°-30°	2225.0	11.9
30°-40°	3686.1	19.7
40°-50°	5157.7	27.5
50°-60°	4351.2	23.2
60°-70°	1326.2	7.1
70°-80°	465.3	2.5
80°-90°	80.9	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°	18747.0	100.0
0°-180°	18747.0	100.0

Coefficient of Utilization



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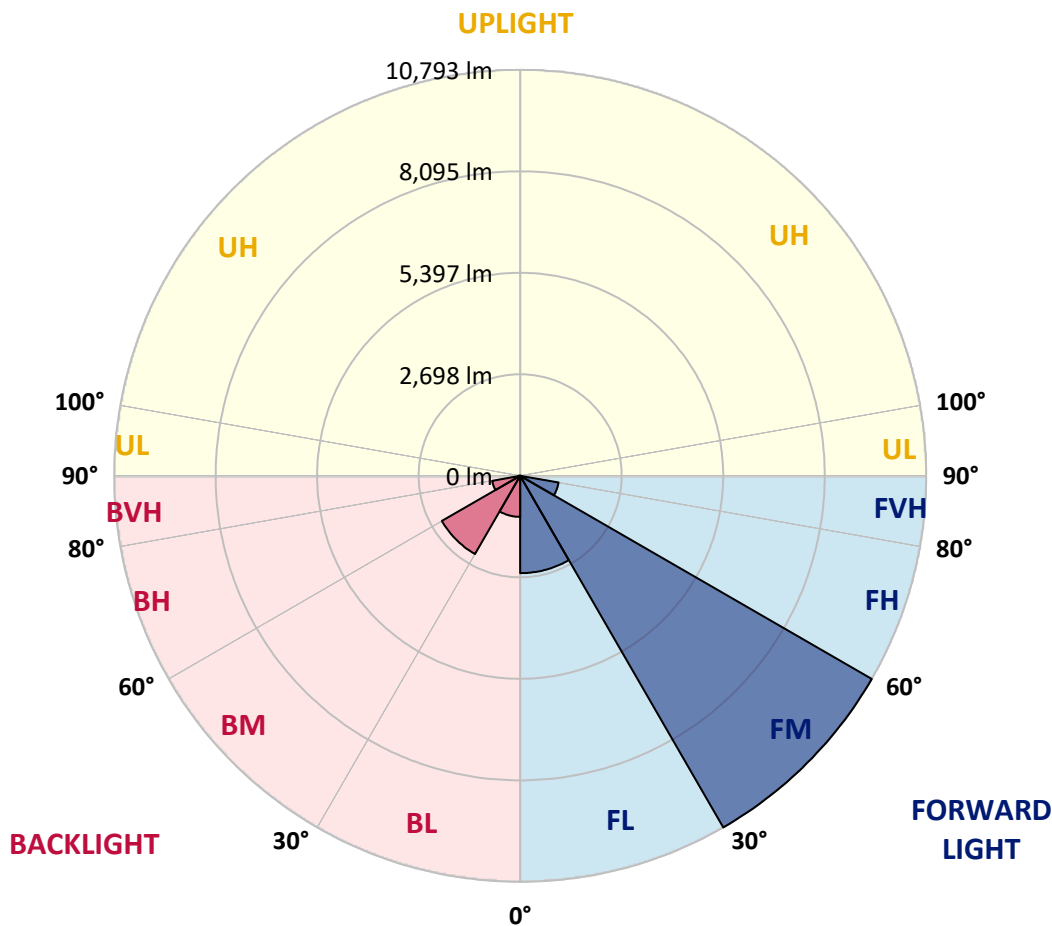
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2587.8	13.8			
FM (30°-60°)	10793.2	57.6			
FH (60°-80°)	1034.8	5.5			G1/1800
FVH (80°-90°)	36.2	0.2			G1/100
BL (0°-30°)	1091.8	5.8	B3/2500		
BM (30°-60°)	2401.9	12.8	B2/2500		
BH (60°-80°)	756.7	4.0	B2/1000		G2/1000
BVH (80°-90°)	44.7	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°	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7
2.5°	3356.7	3335.8	3273.2	3252.3	3178.1	3043.5	2997.1	2860.3	2802.3	2748.9	2686.3
5°	4245.2	4147.8	4140.8	4022.5	3850.8	3751.1	3454.1	3254.6	3071.4	2978.6	2806.9
7.5°	4811.2	4813.5	4813.5	4716.1	4579.2	4326.4	4059.6	3700.0	3424.0	3287.1	2994.8
10°	5349.4	5303.0	5277.5	5268.2	5175.4	4929.5	4644.2	4198.8	3820.7	3660.6	3136.3
12.5°	5729.8	5690.4	5748.4	5718.2	5651.0	5490.9	5221.8	4713.8	4240.5	4024.8	3363.7
15°	5910.8	5938.6	5985.0	6068.5	6038.4	5978.0	5681.1	5242.7	4692.9	4449.3	3565.5
17.5°	6189.1	6112.6	6168.3	6272.7	6356.2	6328.3	6159.0	5625.4	5140.6	4841.4	3836.9
20°	6384.0	6339.9	6367.8	6488.4	6551.0	6708.8	6620.6	6126.5	5569.8	5254.3	4157.0
22.5°	6940.8	6875.8	6785.3	6803.9	6827.1	6938.4	6959.3	6676.3	6068.5	5734.5	4460.9
25°	7627.4	7567.1	7460.4	7351.4	7284.1	7263.2	7335.1	7107.8	6546.4	6200.7	4788.0
27.5°	8383.7	8281.6	8214.3	7989.3	7808.3	7780.5	7745.7	7622.8	7112.4	6738.9	5156.9
30°	9119.0	9037.8	8947.4	8587.8	8399.9	8369.7	8198.1	8232.9	7727.2	7311.9	5574.4
32.5°	9675.8	9682.7	9476.3	9204.9	9028.5	8868.5	8805.9	8905.6	8515.9	8181.8	6040.7
35°	10125.8	10146.7	9949.5	9703.6	9513.4	9624.7	9596.9	9643.3	9457.7	9049.4	6583.5
37.5°	10564.2	10459.8	10248.7	10130.4	10030.7	10214.0	10450.6	10490.0	10524.8	10044.6	7214.5
40°	10636.1	10645.4	10522.5	10606.0	10480.7	10756.8	11306.6	11255.5	11397.0	10977.2	7898.8
42.5°	10534.1	10555.0	10603.7	10722.0	11023.6	11355.3	12171.8	11963.1	12134.7	11761.2	8564.6
45°	10367.1	10281.2	10341.5	10791.6	11313.5	12051.2	12962.9	12800.5	12744.8	12431.7	9358.0
47.5°	9569.1	9657.2	9845.1	10399.5	11183.6	12171.8	13524.3	13487.1	13654.2	13433.8	10079.4
50°	8462.5	8427.7	8789.6	9413.6	10425.1	11935.2	13494.1	13830.5	14190.0	13883.8	10401.9
52.5°	6337.6	6523.2	6834.0	7608.8	9051.7	10645.4	12835.3	13396.7	13689.0	13624.0	10142.0
55°	4006.2	4061.9	4249.8	5170.8	6469.8	8543.7	11002.7	12304.1	12826.0	13069.6	9903.1
57.5°	1946.3	1841.9	2071.6	2811.6	3737.2	5746.1	8485.7	10717.3	11851.7	12292.5	9383.5
60°	1016.1	1055.5	1146.0	1410.4	1932.4	2983.2	5289.1	7142.6	8875.4	9552.8	7112.4
62.5°	842.1	856.0	916.3	1048.5	1285.2	1716.6	2700.2	3482.0	4525.9	5136.0	4045.7
65°	714.5	721.4	786.4	874.6	1025.3	1208.6	1389.5	1454.5	1760.7	1807.1	1438.3
67.5°	596.2	603.1	672.7	756.2	853.7	902.4	948.8	944.1	978.9	965.0	962.7
70°	459.3	466.3	538.2	626.3	675.1	647.2	791.0	823.5	837.4	849.0	867.6
72.5°	331.7	345.6	401.3	464.0	438.4	503.4	651.9	700.6	719.1	726.1	749.3
75°	241.3	245.9	259.8	241.3	278.4	350.3	459.3	519.6	542.8	549.8	584.6
77.5°	106.7	109.0	111.3	139.2	178.6	218.1	273.7	322.4	354.9	364.2	373.5
80°	55.7	58.0	71.9	95.1	127.6	160.1	199.5	227.3	248.2	250.5	259.8
82.5°	34.8	37.1	51.0	67.3	90.5	118.3	146.1	169.3	185.6	187.9	190.2
85°	16.2	20.9	30.2	41.8	60.3	76.6	78.9	67.3	71.9	74.2	69.6
87.5°	4.6	7.0	9.3	7.0	9.3	9.3	11.6	13.9	13.9	13.9	16.2
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°	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7	2609.7
2.5°	2651.5	2630.6	2549.4	2519.3	2440.4	2454.3	2412.6	2410.2	2401.0	2398.6	2396.3
5°	2716.5	2651.5	2554.1	2479.8	2435.8	2431.1	2401.0	2401.0	2410.2	2417.2	2401.0
7.5°	2823.2	2748.9	2584.2	2514.6	2475.2	2468.2	2447.4	2431.1	2452.0	2445.0	2426.5
10°	2946.1	2816.2	2642.2	2581.9	2517.0	2500.7	2500.7	2507.7	2472.9	2484.5	2465.9
12.5°	3083.0	2909.0	2716.5	2646.9	2570.3	2561.0	2556.4	2505.4	2523.9	2514.6	2468.2
15°	3257.0	3015.7	2811.6	2693.3	2628.3	2586.5	2526.2	2517.0	2505.4	2482.2	2461.3
17.5°	3444.9	3131.7	2855.6	2707.2	2609.7	2579.6	2533.2	2484.5	2449.7	2454.3	2438.1
20°	3604.9	3238.4	2871.9	2721.1	2595.8	2537.8	2465.9	2435.8	2398.6	2396.3	2394.0
22.5°	3795.1	3382.2	2895.1	2684.0	2554.1	2493.8	2445.0	2391.7	2366.2	2333.7	2349.9
25°	4022.5	3437.9	2899.7	2663.1	2523.9	2417.2	2391.7	2333.7	2324.4	2278.0	2287.3
27.5°	4187.2	3468.1	2862.6	2598.1	2454.3	2373.1	2326.7	2285.0	2268.7	2233.9	2224.7
30°	4407.6	3514.5	2783.7	2517.0	2384.7	2294.3	2266.4	2257.1	2210.7	2173.6	2169.0
32.5°	4658.1	3544.6	2732.7	2433.4	2312.8	2243.2	2257.1	2213.1	2155.1	2122.6	2113.3
35°	4857.6	3556.2	2605.1	2338.3	2264.1	2220.0	2203.8	2194.5	2111.0	2080.8	2057.6
37.5°	5161.5	3530.7	2498.4	2271.1	2210.7	2194.5	2180.6	2118.0	2022.8	1978.8	1946.3
40°	5516.4	3523.7	2361.5	2175.9	2159.7	2178.3	2136.5	2039.1	1906.9	1858.1	1834.9
42.5°	5857.4	3572.4	2275.7	2124.9	2104.0	2111.0	2053.0	1906.9	1841.9	1814.1	1776.9
45°	6428.1	3674.5	2134.2	2046.0	2036.8	2032.1	1962.5	1809.4	1772.3	1737.5	1730.5
47.5°	6943.1	3607.2	2043.7	1964.8	1974.1	1948.6	1800.1	1751.4	1709.7	1674.9	1663.3
50°	6973.2	3447.2	1916.1	1902.2	1904.5	1860.5	1719.0	1686.5	1633.1	1609.9	1593.7
52.5°	6815.5	3185.0	1797.8	1802.5	1809.4	1737.5	1619.2	1596.0	1551.9	1519.4	1510.2
55°	6372.4	2776.8	1681.8	1700.4	1719.0	1582.1	1545.0	1487.0	1452.2	1405.8	1408.1
57.5°	5613.8	2236.3	1519.4	1549.6	1589.0	1438.3	1410.4	1338.5	1287.5	1250.4	1245.7
60°	3762.7	1591.4	1275.9	1287.5	1375.6	1315.3	1313.0	1241.1	1171.5	1139.0	1120.4
62.5°	2220.0	1215.6	1101.9	1090.3	1088.0	1122.8	1180.8	1155.2	1064.8	1002.1	1020.7
65°	1162.2	1050.9	1025.3	985.9	962.7	953.4	997.5	1009.1	948.8	881.5	876.9
67.5°	976.6	976.6	955.7	941.8	909.4	869.9	842.1	805.0	795.7	777.1	753.9
70°	888.5	911.7	904.7	872.2	844.4	800.3	728.4	668.1	610.1	589.2	603.1
72.5°	774.8	798.0	798.0	781.8	744.6	677.4	607.8	538.2	489.5	452.4	447.7
75°	596.2	607.8	635.6	617.1	568.3	526.6	454.7	382.8	336.4	301.6	294.6
77.5°	380.4	399.0	399.0	396.7	361.9	322.4	276.1	225.0	190.2	164.7	157.7
80°	252.9	264.5	273.7	264.5	241.3	211.1	176.3	141.5	116.0	95.1	90.5
82.5°	185.6	199.5	206.5	197.2	174.0	150.8	125.3	99.8	74.2	58.0	53.4
85°	71.9	74.2	83.5	99.8	97.4	95.1	76.6	55.7	41.8	30.2	27.8
87.5°	18.6	16.2	18.6	18.6	16.2	13.9	13.9	13.9	13.9	7.0	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

(END OF REPORT)