

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: P382957

Luminaire Tested: **GLEON-SA3A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13551.2 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

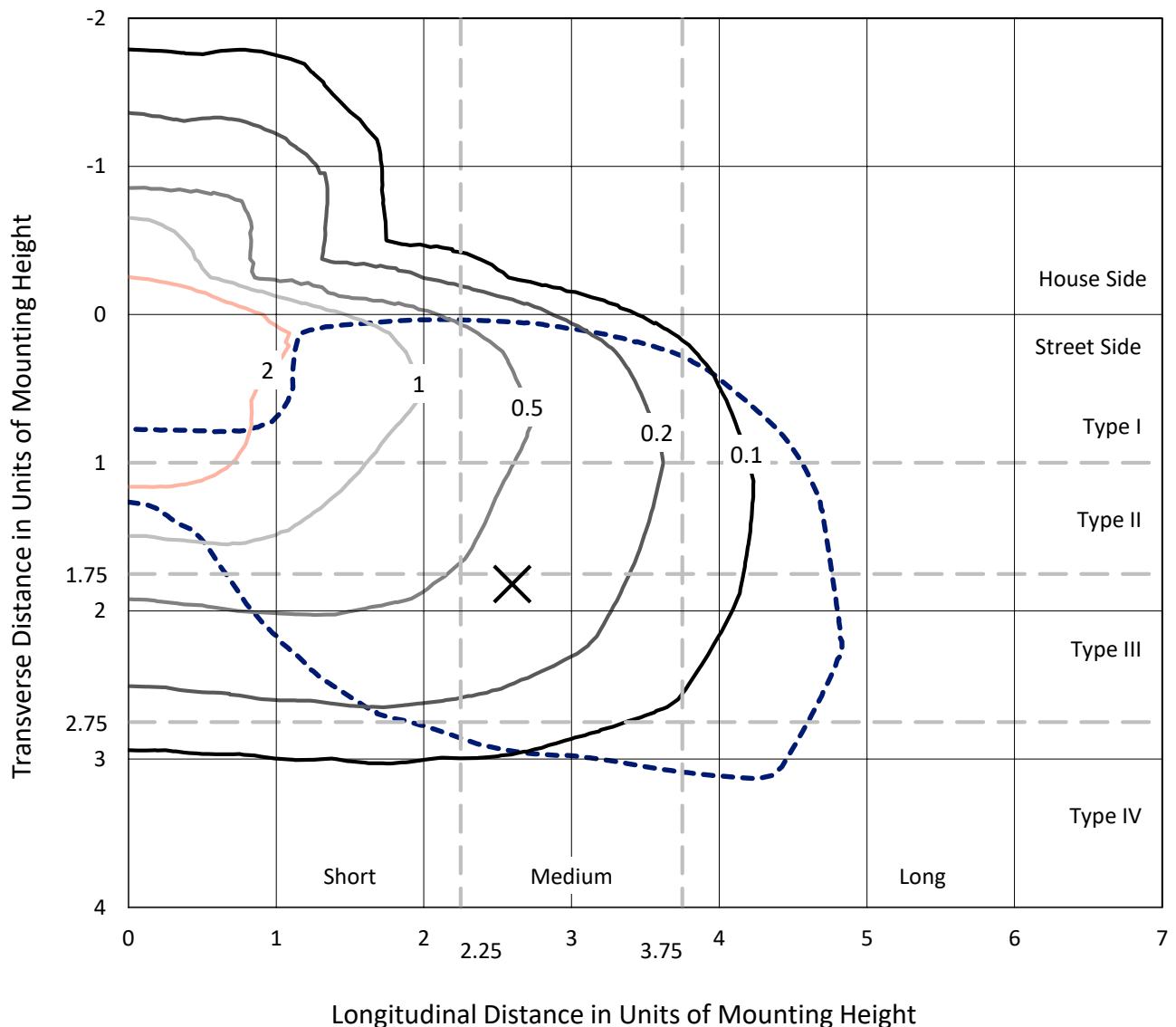
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

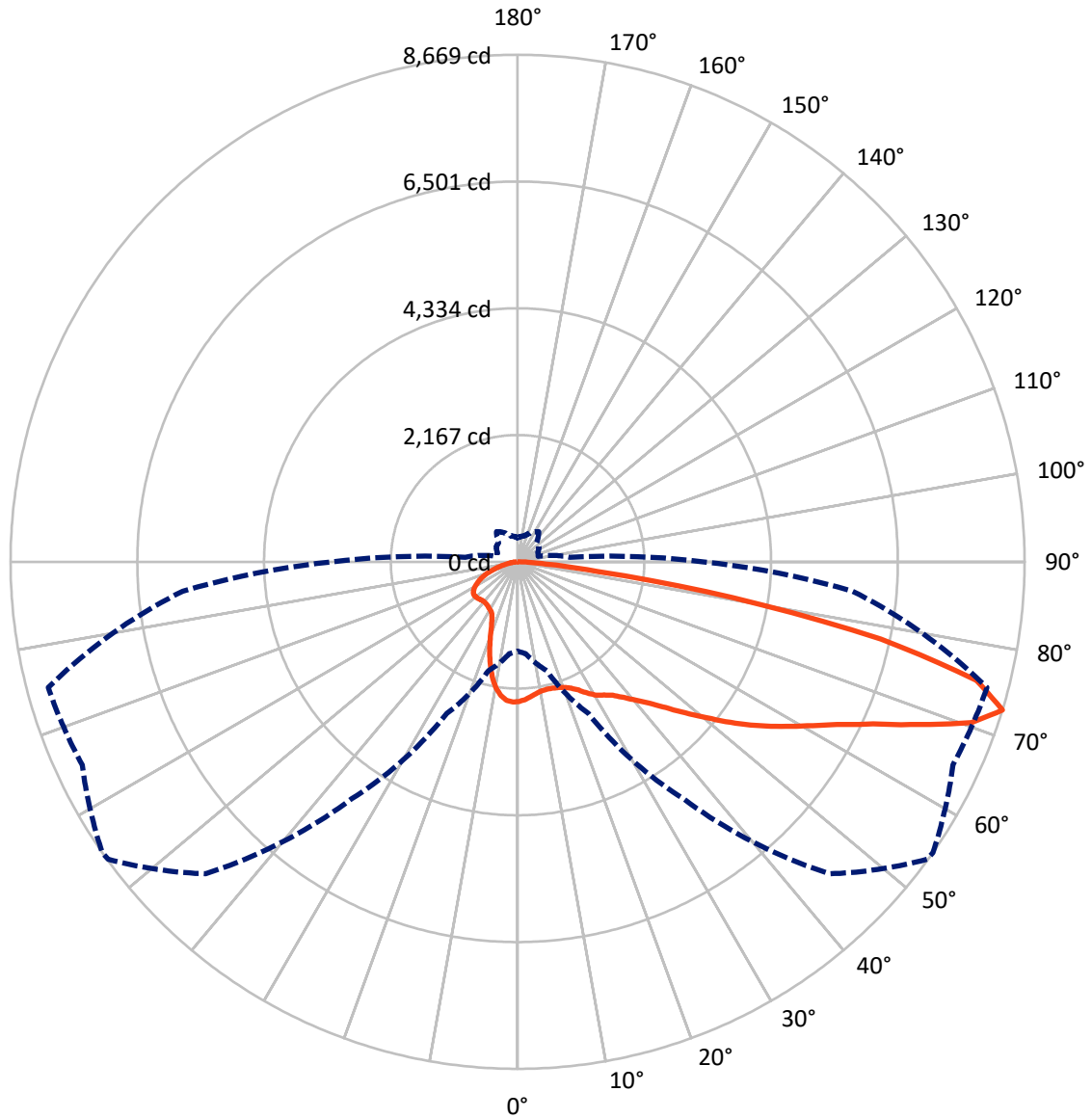
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2518.7	0.0	2518.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11032.5	0.0	11032.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	13551.2	0.0	13551.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.6
10°-20°	575.8	4.2
20°-30°	949.4	7.0
30°-40°	1404.4	10.4
40°-50°	1960.2	14.5
50°-60°	2552.2	18.8
60°-70°	3136.6	23.1
70°-80°	2458.7	18.1
80°-90°	297.5	2.2
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°	13551.2	100.0
0°-180°	13551.2	100.0

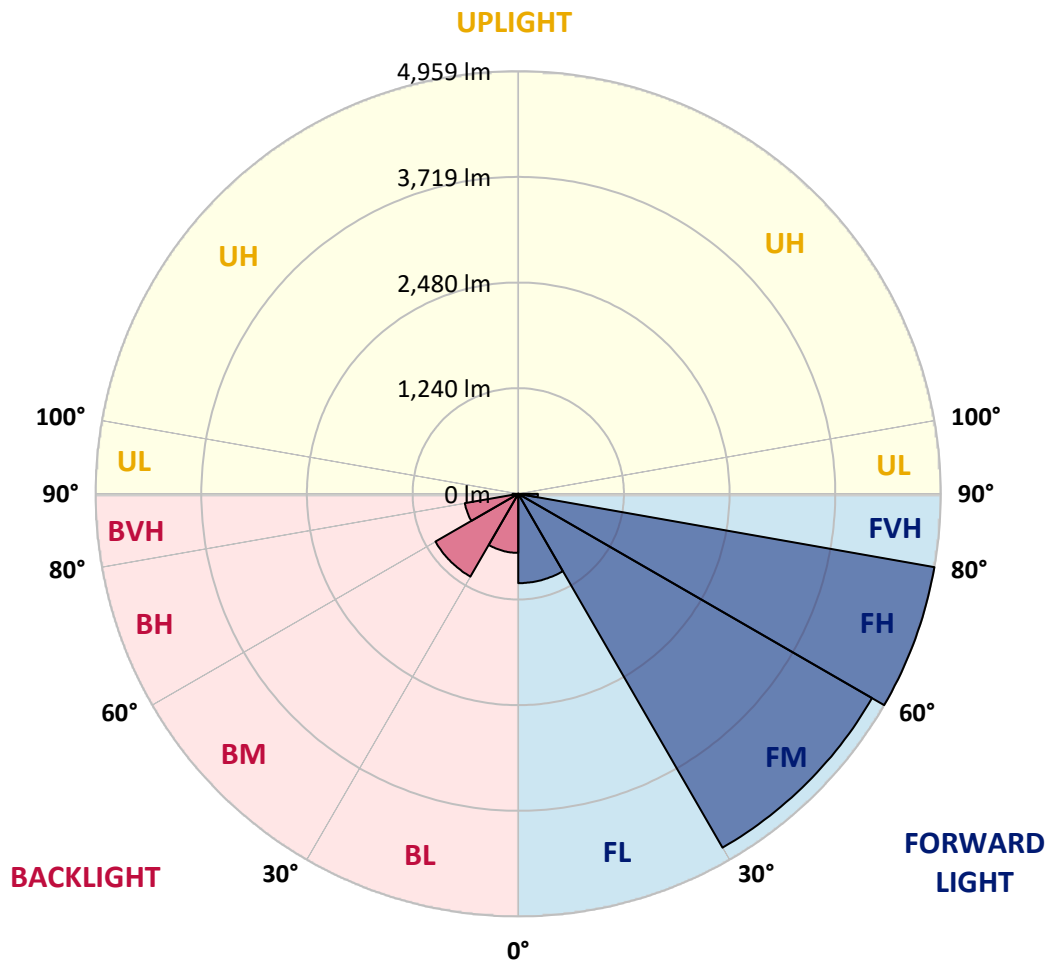


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.5	7.7			
FM (30°-60°)	4794.7	35.4			
FH (60°-80°)	4959.3	36.6			G2/5000
FVH (80°-90°)	230.0	1.7			G3/500
BL (0°-30°)	693.0	5.1	B2/1000		
BM (30°-60°)	1122.1	8.3	B2/2500		
BH (60°-80°)	636.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	67.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2
2.5°	2312.3	2306.9	2313.7	2323.3	2333.8	2348.1	2356.3	2359.9	2374.1	2379.6	2391.6
5°	2205.3	2202.5	2213.9	2230.4	2253.8	2286.7	2313.2	2318.2	2355.8	2382.3	2406.7
7.5°	2127.4	2127.4	2140.7	2160.4	2186.4	2230.9	2268.4	2275.3	2338.8	2396.1	2440.9
10°	2065.6	2067.9	2083.5	2106.8	2137.5	2184.7	2234.5	2242.3	2334.3	2428.2	2499.5
12.5°	2024.4	2029.9	2044.1	2065.1	2103.2	2160.4	2223.5	2234.0	2344.0	2473.9	2570.0
15°	2050.5	2059.7	2061.0	2069.7	2090.8	2153.1	2229.9	2240.9	2364.5	2520.6	2650.2
17.5°	2164.9	2168.2	2153.9	2135.7	2125.6	2165.4	2249.1	2260.6	2389.2	2566.8	2727.0
20°	2338.8	2337.1	2306.4	2257.0	2205.7	2212.1	2280.7	2292.6	2422.7	2607.6	2803.9
22.5°	2558.6	2552.2	2505.0	2413.9	2326.5	2289.9	2336.1	2346.2	2473.0	2665.7	2886.3
25°	2825.0	2810.8	2748.5	2626.3	2497.7	2403.4	2419.4	2429.0	2546.2	2730.6	2961.9
27.5°	3106.0	3091.8	3012.6	2864.8	2693.6	2546.7	2534.3	2542.6	2629.5	2778.7	3017.7
30°	3399.9	3384.8	3312.4	3146.8	2901.4	2695.0	2641.4	2644.7	2688.1	2804.8	3063.4
32.5°	3695.1	3680.9	3599.9	3407.6	3127.0	2854.3	2718.8	2714.6	2723.4	2831.8	3115.2
35°	3994.4	3999.9	3905.1	3692.3	3377.0	3031.3	2810.3	2801.6	2782.4	2887.2	3188.4
37.5°	4314.8	4311.1	4188.5	3966.1	3638.3	3223.6	2941.6	2940.3	2873.9	2992.0	3303.3
40°	4529.0	4531.3	4456.7	4246.2	3902.4	3436.5	3110.2	3106.9	3020.0	3149.0	3453.9
42.5°	4612.7	4627.8	4647.1	4513.4	4178.8	3683.2	3311.1	3306.4	3223.6	3374.3	3631.0
45°	4618.7	4648.9	4767.9	4751.0	4458.9	3965.6	3567.8	3555.0	3495.5	3673.6	3842.4
47.5°	4567.5	4598.6	4796.4	4892.4	4709.3	4263.5	3868.1	3858.0	3806.8	4047.9	4071.3
50°	4455.3	4485.0	4737.8	4961.5	4915.3	4550.1	4214.1	4187.6	4160.1	4480.5	4333.1
52.5°	4245.2	4302.4	4659.4	4978.0	5038.5	4804.5	4578.0	4560.6	4575.7	4936.8	4595.4
55°	3747.7	3811.8	4457.6	4964.3	5129.5	5018.3	4941.9	4940.9	5019.2	5415.6	4876.8
57.5°	3469.0	3514.3	4046.5	4940.9	5237.5	5230.6	5302.1	5310.8	5463.2	5936.9	5171.7
60°	3311.5	3359.1	3838.3	4854.5	5405.0	5505.3	5669.6	5687.0	5914.5	6514.1	5526.3
62.5°	3168.3	3220.5	3709.2	4678.2	5602.3	5898.0	6109.9	6125.5	6392.4	7107.2	5869.2
65°	2923.4	2982.4	3520.2	4562.4	5781.7	6410.2	6669.7	6680.2	6941.1	7728.9	6131.4
67.5°	2577.3	2631.3	3163.6	4306.5	5914.5	7032.2	7413.9	7419.9	7485.4	8167.8	6265.6
70°	2173.2	2193.8	2655.7	3778.4	5757.5	7613.9	8229.6	8231.0	7981.5	8448.8	6243.6
72.5°	1526.9	1575.4	1927.8	2860.2	4947.8	7543.0	8653.0	8668.5	8212.2	8306.9	5744.7
75°	936.5	987.7	1209.2	1733.3	3138.9	5932.4	7994.7	8102.8	7779.6	7406.6	4692.9
77.5°	626.2	645.4	789.1	1010.6	1422.1	3413.1	6146.5	6349.8	6462.8	5401.4	3001.2
80°	349.2	385.8	523.2	628.0	632.5	1356.1	3685.5	3733.1	3595.8	2150.8	926.0
82.5°	184.9	205.0	349.2	368.9	345.1	454.0	1373.6	1375.0	1148.9	576.7	275.1
85°	143.3	160.2	239.4	225.2	176.2	201.4	453.1	477.9	390.9	236.1	89.7
87.5°	71.4	88.8	162.5	142.8	69.1	57.7	162.0	173.0	154.3	92.5	32.5
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°	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2	2390.2
2.5°	2396.1	2400.2	2405.3	2399.8	2397.9	2390.6	2378.2	2375.5	2369.1	2369.6	2373.2
5°	2417.2	2424.0	2421.3	2400.2	2375.1	2339.8	2303.2	2272.0	2251.5	2250.1	2248.8
7.5°	2457.4	2462.0	2440.5	2380.6	2310.1	2228.5	2151.7	2084.4	2043.6	2033.6	2031.3
10°	2520.6	2519.6	2460.6	2339.8	2199.3	2053.7	1930.2	1836.7	1782.3	1766.3	1762.2
12.5°	2591.1	2580.6	2467.5	2265.6	2042.8	1840.9	1684.3	1580.5	1523.7	1505.4	1500.8
15°	2663.9	2637.8	2450.5	2154.9	1850.5	1611.6	1447.3	1351.1	1320.5	1310.4	1308.5
17.5°	2731.6	2681.3	2402.1	2004.8	1631.2	1383.2	1255.1	1216.6	1223.9	1237.2	1237.7
20°	2798.0	2710.5	2324.2	1815.3	1400.1	1195.1	1151.6	1180.0	1214.7	1241.8	1245.4
22.5°	2863.4	2731.1	2224.0	1596.5	1193.2	1089.4	1120.0	1171.7	1211.6	1240.8	1245.9
25°	2918.4	2736.1	2085.7	1363.0	1049.5	1049.5	1104.9	1153.9	1193.2	1222.1	1227.1
27.5°	2938.5	2702.3	1890.8	1147.0	977.2	1031.2	1083.9	1124.6	1158.0	1188.7	1194.2
30°	2946.3	2639.6	1665.6	973.6	947.5	1011.6	1055.4	1090.3	1121.9	1150.6	1155.7
32.5°	2947.6	2564.1	1426.7	875.1	926.9	991.0	1020.2	1050.9	1084.8	1096.2	1098.0
35°	2956.4	2474.8	1175.0	824.8	907.6	971.7	995.1	1017.1	962.1	966.2	969.8
37.5°	2981.5	2386.4	964.4	796.4	895.3	961.6	989.6	909.9	866.9	856.8	855.4
40°	3028.6	2292.2	808.3	773.6	890.7	966.7	954.3	849.5	775.3	720.0	711.7
42.5°	3094.1	2190.6	708.5	758.5	893.9	991.0	905.4	791.3	668.3	632.5	628.0
45°	3167.8	2084.0	654.5	747.8	904.9	1009.7	895.3	714.0	618.4	591.3	589.1
47.5°	3239.2	1953.5	626.6	743.3	920.0	994.6	852.7	690.2	594.6	580.4	581.8
50°	3321.2	1835.9	609.7	738.3	933.2	985.0	804.7	677.9	585.4	602.8	621.1
52.5°	3390.3	1714.1	594.6	728.2	938.3	968.1	792.3	680.1	585.4	618.8	636.2
55°	3472.2	1622.1	577.2	707.1	928.7	920.0	783.6	693.9	592.3	571.2	573.1
57.5°	3577.9	1591.9	557.9	674.2	896.6	849.9	779.5	707.1	588.2	574.9	579.4
60°	3724.3	1624.0	550.2	631.2	846.8	795.1	779.9	700.3	559.3	536.5	536.9
62.5°	3864.0	1659.6	549.7	604.2	785.4	746.1	769.4	677.9	544.7	531.4	536.5
65°	3909.7	1623.5	527.7	573.9	716.3	687.5	750.2	654.0	533.7	513.6	512.6
67.5°	3848.4	1511.3	483.4	525.0	637.1	619.3	725.0	625.7	516.3	499.8	497.1
70°	3666.2	1260.9	428.4	460.5	547.0	542.3	685.2	592.7	493.0	478.7	466.9
72.5°	3176.0	898.5	361.2	383.1	445.4	460.0	630.3	549.7	460.0	429.4	411.0
75°	2608.4	665.0	296.6	301.2	338.2	378.0	554.7	499.4	421.1	368.9	354.7
77.5°	1597.4	406.9	236.1	238.0	242.6	301.6	456.8	443.0	371.7	307.6	297.5
80°	517.2	222.0	170.8	179.4	165.7	221.1	353.3	377.2	319.1	257.2	246.2
82.5°	196.8	129.5	115.3	121.3	114.9	148.3	257.7	302.1	261.4	211.5	172.1
85°	95.2	73.2	68.2	76.5	71.0	76.0	164.8	222.5	198.2	137.8	128.2
87.5°	33.9	32.5	26.1	35.2	30.2	27.0	50.3	112.2	130.9	94.7	84.7
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)