

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: P383095

Luminaire Tested: **GLEON-SA4B-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21478.7 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

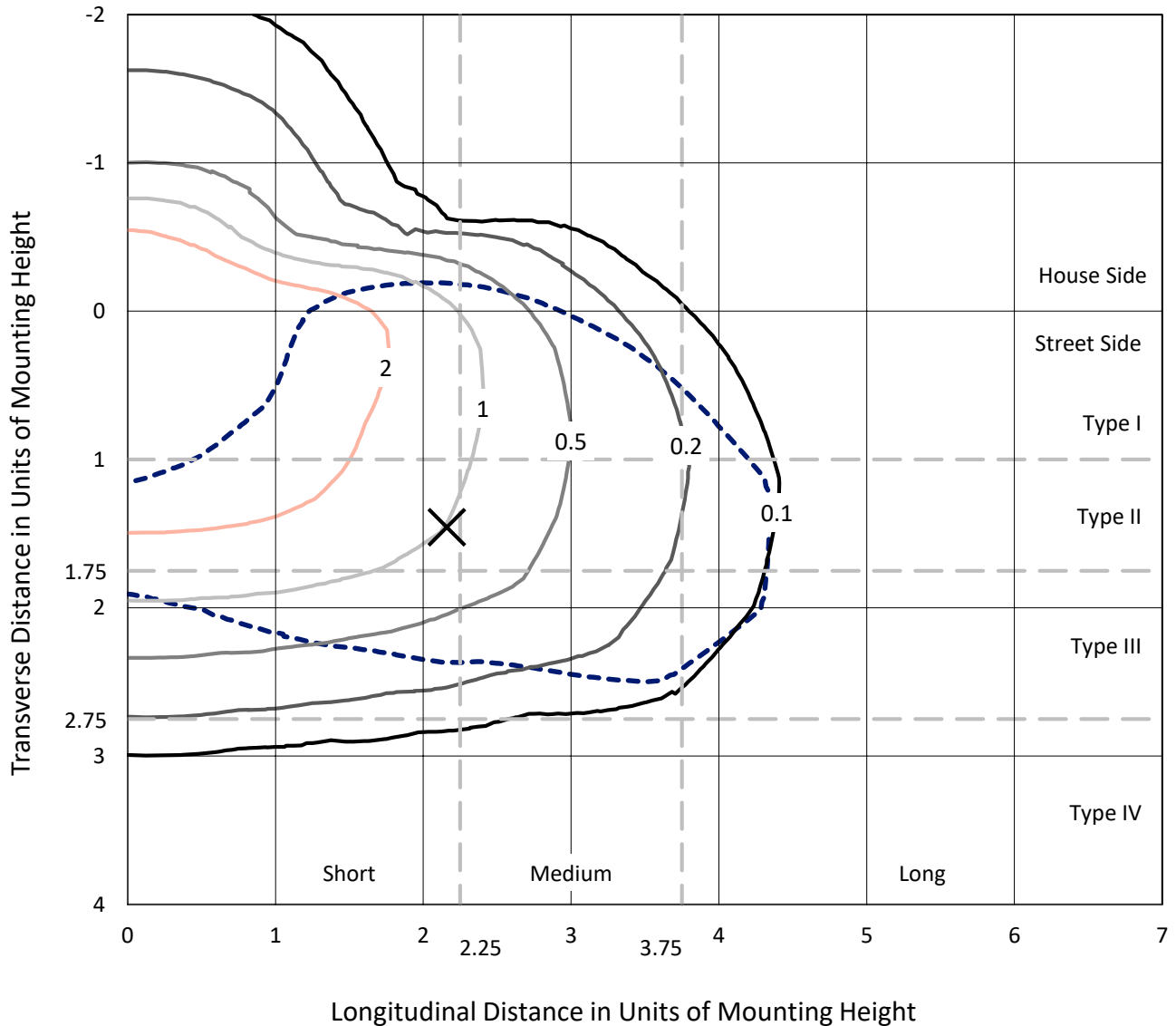
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

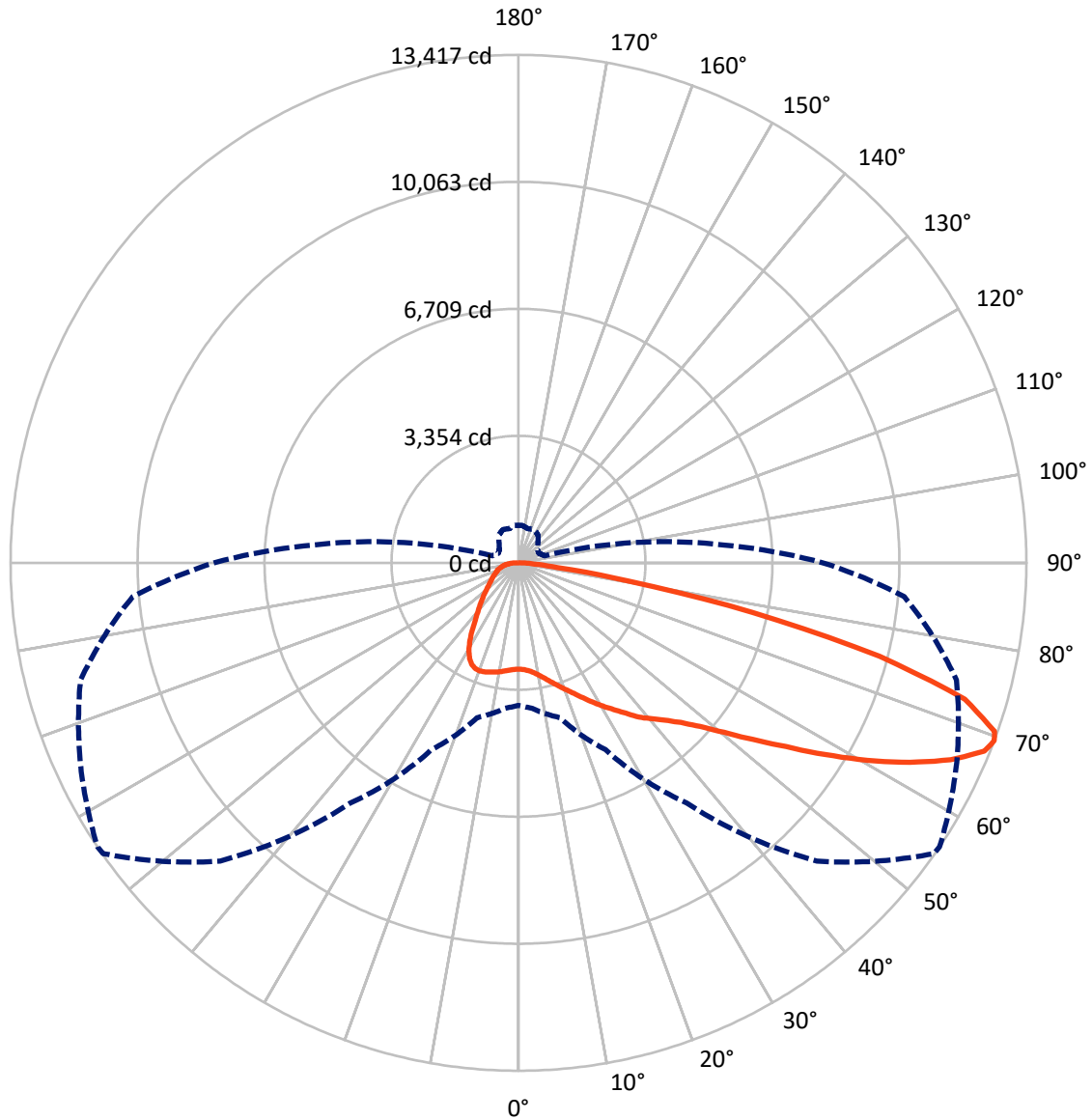
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4783.3	0.0	4783.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16695.4	0.0	16695.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	21478.7	0.0	21478.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.3
10°-20°	886.8	4.1
20°-30°	1548.1	7.2
30°-40°	2223.8	10.4
40°-50°	3077.6	14.3
50°-60°	4509.0	21.0
60°-70°	5497.4	25.6
70°-80°	3039.3	14.2
80°-90°	420.9	2.0
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°	21478.7	100.0
0°-180°	21478.7	100.0



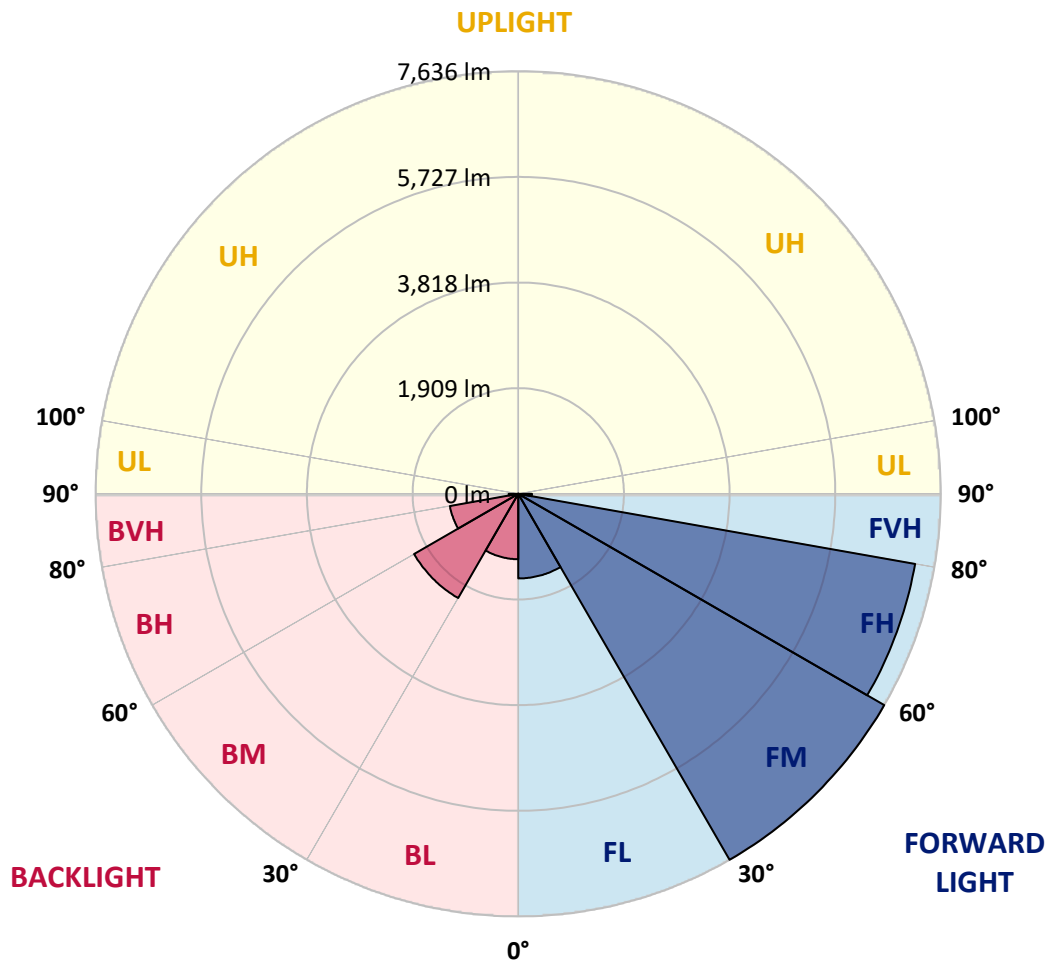
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.6	7.1			
FM (30°-60°)	7636.5	35.6			
FH (60°-80°)	7282.4	33.9			G3/7500
FVH (80°-90°)	247.9	1.2			G3/500
BL (0°-30°)	1182.1	5.5	B3/2500		
BM (30°-60°)	2173.9	10.1	B2/2500		
BH (60°-80°)	1254.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	173.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1
2.5°	2825.8	2828.7	2826.5	2832.5	2825.8	2830.2	2826.5	2826.5	2824.3	2817.7	2810.2
5°	2870.2	2876.1	2872.4	2878.3	2870.2	2871.7	2865.0	2865.0	2858.4	2844.3	2829.5
7.5°	2939.7	2946.4	2943.4	2949.4	2938.3	2938.3	2929.3	2928.6	2915.3	2892.4	2875.3
10°	3022.6	3031.4	3028.6	3037.4	3028.6	3031.4	3022.6	3022.6	3004.8	2972.3	2950.9
12.5°	3143.2	3154.3	3146.1	3145.5	3141.7	3147.6	3140.2	3138.8	3122.5	3078.1	3048.5
15°	3304.5	3316.3	3299.4	3297.9	3277.1	3274.9	3274.9	3272.7	3262.4	3209.1	3160.2
17.5°	3490.2	3494.0	3479.1	3455.5	3428.8	3411.8	3409.6	3415.5	3415.5	3353.4	3275.7
20°	3672.3	3678.9	3667.0	3640.4	3606.4	3581.2	3563.4	3575.3	3574.5	3500.6	3390.4
22.5°	3870.6	3886.0	3868.3	3834.2	3794.4	3766.2	3735.1	3745.5	3746.2	3655.2	3502.8
25°	4127.3	4113.2	4102.2	4054.1	3997.1	3968.2	3939.3	3949.8	3946.8	3821.7	3619.0
27.5°	4354.4	4357.4	4342.6	4291.5	4225.7	4162.1	4160.6	4167.3	4156.2	3994.8	3728.5
30°	4618.6	4620.1	4599.3	4553.5	4481.8	4399.6	4380.3	4391.5	4367.7	4159.1	3843.9
32.5°	4881.3	4888.7	4865.8	4810.2	4752.6	4652.6	4614.1	4621.6	4562.3	4327.0	3963.1
35°	5111.4	5121.7	5114.4	5077.4	5014.4	4928.6	4882.8	4878.3	4805.1	4532.8	4120.6
37.5°	5346.0	5355.6	5347.5	5316.3	5291.2	5200.2	5175.8	5175.8	5048.5	4742.9	4321.2
40°	5587.1	5602.0	5592.4	5549.4	5528.0	5486.5	5428.1	5414.1	5276.4	4995.2	4648.2
42.5°	5811.4	5830.6	5869.1	5844.0	5800.3	5806.1	5688.6	5681.1	5580.5	5368.1	5058.9
45°	6129.6	6157.6	6222.7	6203.5	6194.7	6162.1	6022.3	6015.6	5977.1	5869.9	5568.7
47.5°	6476.6	6515.1	6632.7	6636.3	6731.8	6670.4	6480.2	6457.3	6466.2	6470.6	6191.0
50°	6796.2	6838.4	7031.5	7122.5	7347.5	7360.8	7056.7	7036.0	7070.7	7172.8	6916.1
52.5°	7051.4	7104.7	7346.0	7627.1	8012.6	8122.2	7766.2	7750.8	7776.7	7952.7	7735.9
55°	7238.7	7296.4	7559.0	8071.1	8686.7	8879.9	8583.1	8568.4	8584.6	8808.8	8627.5
57.5°	7282.4	7296.4	7677.4	8370.0	9255.8	9719.7	9582.7	9553.2	9473.3	9668.6	9611.6
60°	7077.3	7133.6	7579.8	8475.1	9696.0	10547.6	10627.6	10590.6	10366.4	10526.2	10480.3
62.5°	6661.6	6762.2	7215.0	8315.3	9868.3	11223.9	11652.4	11607.9	11221.7	11325.3	11104.8
65°	5982.3	6025.2	6501.0	7764.1	9649.3	11656.7	12566.1	12543.9	12057.9	11895.8	11220.2
67.5°	4767.4	4848.0	5252.0	6611.9	8753.3	11605.7	13272.8	13270.5	12603.8	12107.4	10811.1
69°	3766.2	3849.8	4234.6	5446.6	7745.5	11138.8	13391.2	13417.1	12757.8	11978.7	10226.5
70°	3002.7	3099.5	3363.7	4587.5	6851.0	10523.2	13292.7	13339.4	12728.2	11766.3	9687.1
72.5°	1277.9	1356.2	1544.2	2364.8	4175.4	7858.0	12154.0	12330.2	12042.3	10768.9	8006.0
75°	557.9	582.3	667.5	964.2	1853.5	4276.7	9521.3	9846.9	10296.8	9102.5	5963.8
77.5°	408.5	418.8	465.4	566.0	831.7	1615.2	6122.9	6312.3	7425.9	6623.8	3658.2
80°	316.0	323.3	359.6	415.8	543.1	653.4	2792.5	2955.2	4175.4	3402.2	1523.5
82.5°	251.6	256.7	281.9	306.3	375.1	395.8	927.2	1028.5	1541.2	939.7	403.3
85°	233.8	239.8	248.6	223.5	240.4	232.3	401.0	419.6	465.4	369.3	168.7
87.5°	105.8	125.0	246.4	173.9	128.0	102.1	164.2	171.7	193.1	193.9	74.7
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°	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1
2.5°	2814.7	2812.4	2816.2	2807.3	2818.4	2817.7	2813.9	2815.4	2822.8	2822.0	2822.8
5°	2831.7	2830.2	2834.7	2828.0	2841.3	2845.8	2846.5	2853.1	2861.2	2863.5	2863.5
7.5°	2874.6	2874.6	2876.8	2868.0	2876.8	2876.1	2872.4	2879.0	2887.1	2887.9	2887.1
10°	2948.6	2949.4	2945.6	2922.7	2915.3	2895.3	2876.8	2877.6	2887.9	2896.1	2898.3
12.5°	3041.9	3038.9	3022.6	2980.4	2949.4	2908.7	2889.4	2888.6	2899.1	2905.7	2907.9
15°	3148.4	3140.2	3098.0	3029.3	2974.5	2934.6	2903.4	2896.1	2890.1	2882.8	2883.5
17.5°	3249.1	3230.5	3160.2	3064.8	3007.0	2953.8	2893.9	2845.8	2812.4	2793.2	2787.3
20°	3351.1	3314.8	3213.5	3098.0	3024.8	2927.9	2812.4	2714.8	2654.1	2626.0	2620.8
22.5°	3444.4	3385.9	3263.0	3132.9	3010.8	2840.6	2659.3	2517.2	2432.8	2395.1	2398.1
25°	3535.3	3454.0	3314.8	3157.3	2939.7	2686.7	2446.2	2271.6	2173.9	2131.8	2130.3
27.5°	3615.2	3522.7	3371.1	3137.3	2807.3	2467.7	2193.9	2023.7	1942.3	1906.0	1900.2
30°	3707.0	3609.4	3445.8	3061.1	2613.5	2214.6	1947.5	1827.6	1769.9	1733.6	1727.0
32.5°	3818.8	3727.0	3507.3	2922.7	2365.6	1950.5	1755.1	1671.5	1618.9	1578.2	1570.9
35°	3981.5	3882.4	3522.7	2724.4	2093.3	1741.8	1613.8	1527.9	1456.9	1404.4	1399.2
37.5°	4185.7	4077.0	3487.2	2467.7	1829.1	1606.4	1496.2	1390.3	1297.8	1223.9	1212.0
40°	4480.3	4316.0	3388.9	2171.7	1634.5	1502.0	1381.5	1260.8	1146.2	1059.5	1042.6
42.5°	4833.9	4596.4	3237.9	1877.2	1491.7	1396.2	1267.5	1118.0	1008.5	947.1	938.3
45°	5283.8	4887.9	3028.6	1619.7	1351.1	1290.5	1144.7	1007.0	939.0	893.8	886.5
47.5°	5797.3	5215.0	2808.7	1410.3	1232.0	1191.3	1046.2	957.4	903.4	867.9	861.3
50°	6428.4	5584.3	2575.6	1238.7	1112.1	1072.1	999.6	930.1	887.2	859.8	853.1
52.5°	7140.3	6000.8	2407.7	1103.2	1013.0	984.1	975.2	915.2	880.5	859.8	853.1
55°	7906.9	6424.8	2226.4	989.3	927.2	935.3	958.9	916.7	893.1	867.9	858.3
57.5°	8674.1	6862.8	2024.4	893.1	859.1	899.0	947.8	919.7	899.8	875.4	866.4
60°	9280.9	7140.3	1711.4	812.4	805.0	859.1	921.2	897.5	871.6	872.4	870.9
62.5°	9564.3	7125.5	1365.9	740.7	751.0	805.0	878.3	862.7	841.3	870.2	872.4
65°	9405.2	6770.3	1063.3	675.6	693.4	748.8	833.9	845.8	853.1	908.6	916.0
67.5°	8737.7	6079.2	823.6	618.5	640.8	710.3	838.3	921.2	930.8	989.3	988.6
69°	8047.5	5431.0	715.5	589.0	614.9	720.0	896.1	969.3	933.0	995.2	986.3
70°	7468.8	4918.3	657.8	569.0	603.1	736.9	934.5	968.5	922.0	975.2	960.4
72.5°	5752.2	3538.3	557.9	532.0	563.1	705.2	945.6	947.1	896.1	906.4	881.2
75°	3945.3	2236.1	486.8	481.7	502.4	635.6	910.1	904.9	828.7	813.9	793.2
77.5°	2175.3	1135.7	413.6	433.6	447.6	563.1	827.2	819.9	757.0	725.9	718.5
80°	839.0	497.3	349.2	385.5	394.4	487.6	725.1	718.5	666.0	626.0	614.9
82.5°	316.7	260.5	288.6	333.7	330.8	402.5	614.2	610.4	559.4	500.9	483.2
85°	146.5	156.1	228.6	275.3	253.8	298.2	491.3	498.0	435.8	366.3	366.3
87.5°	62.1	87.3	162.1	207.9	170.9	201.2	360.3	344.0	316.0	219.0	205.7
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)