

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: P192051

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL4-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17268 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

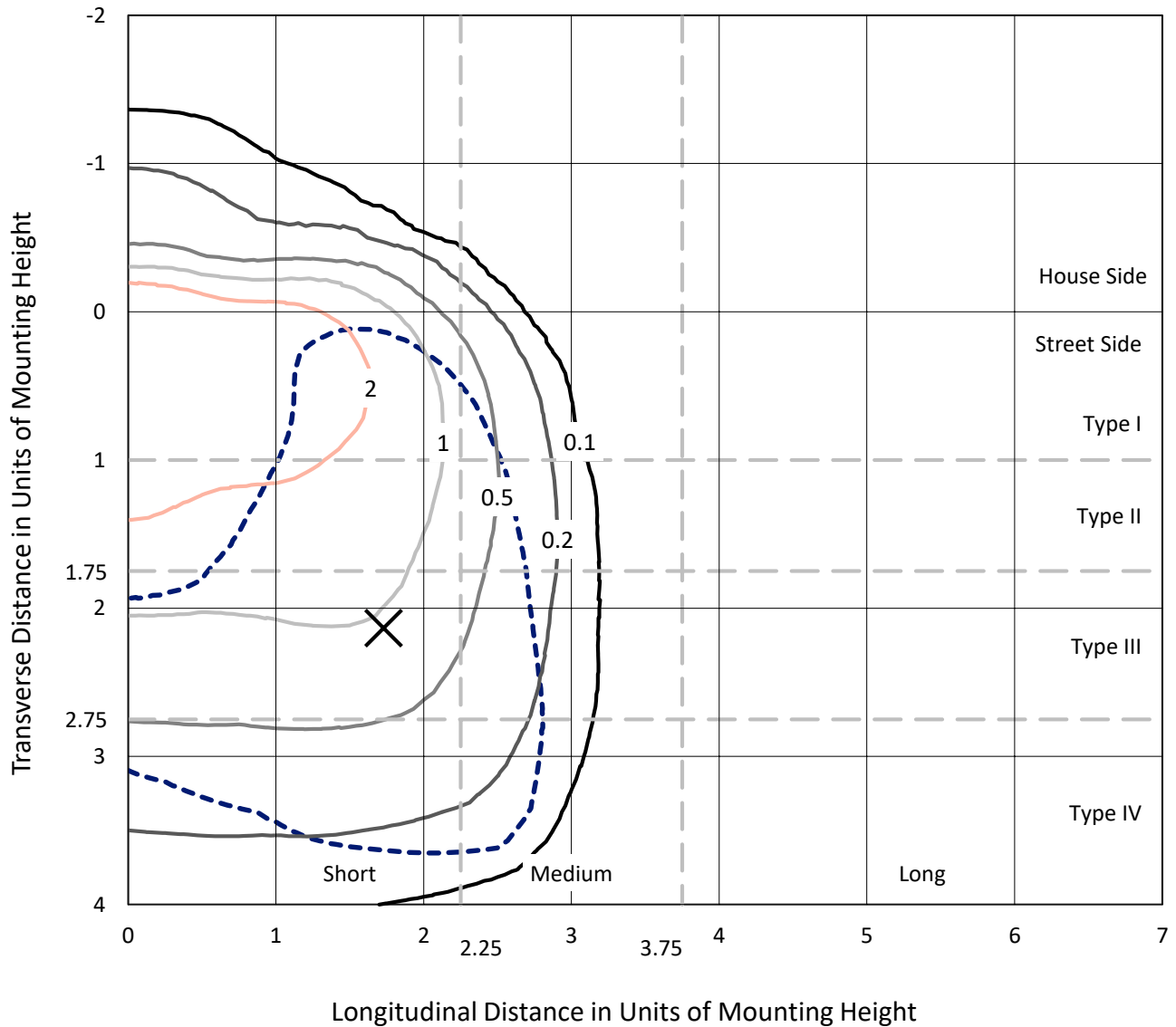
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

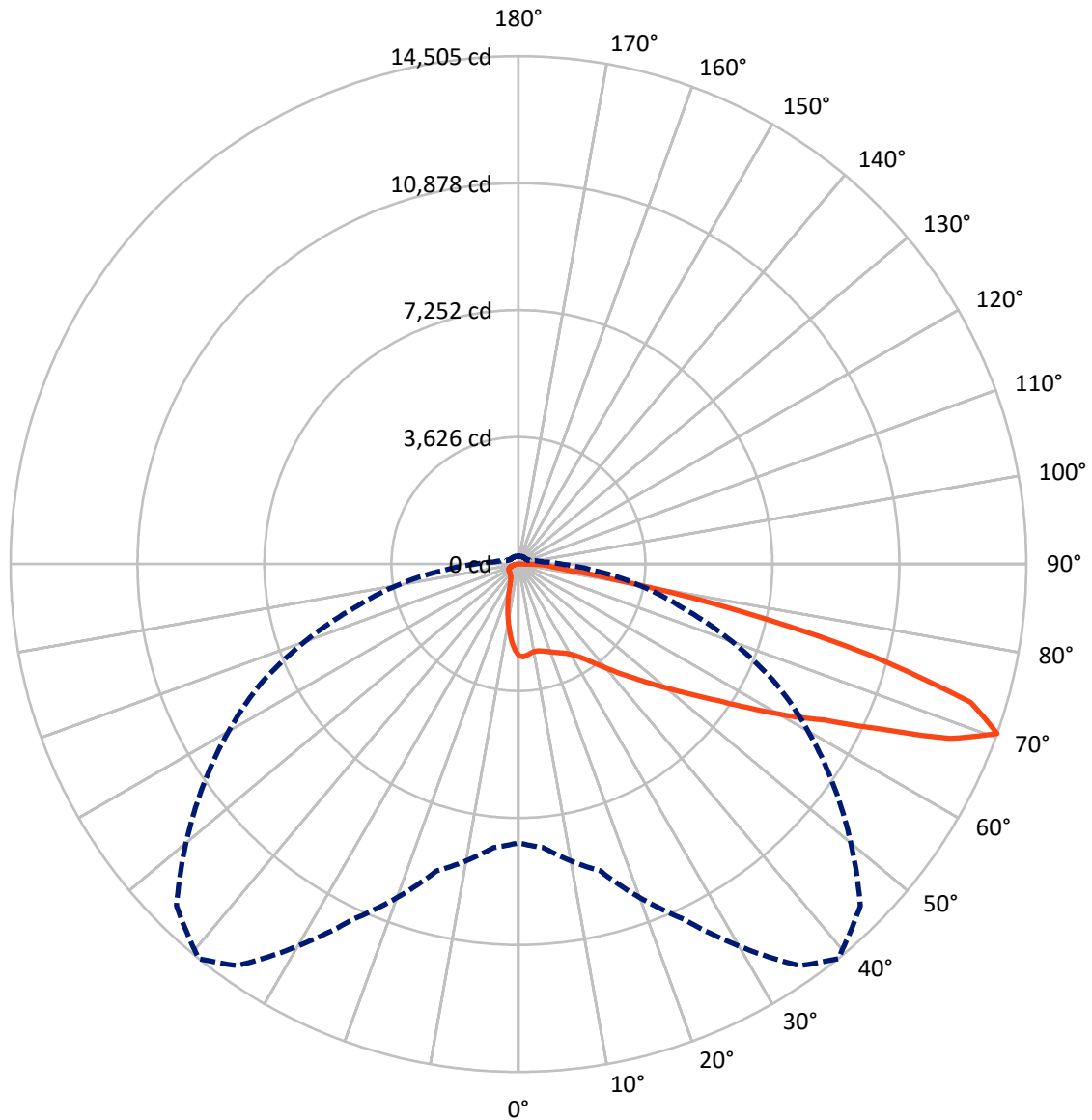
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1964.0	0.0	1964.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	15304.0	0.0	15304.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	17268.0	0.0	17268.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	1.3
10°-20°	562.4	3.3
20°-30°	875.6	5.1
30°-40°	1364.0	7.9
40°-50°	2290.0	13.3
50°-60°	3637.9	21.1
60°-70°	4852.5	28.1
70°-80°	2930.3	17.0
80°-90°	530.3	3.1
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°	17268.0	100.0
0°-180°	17268.0	100.0



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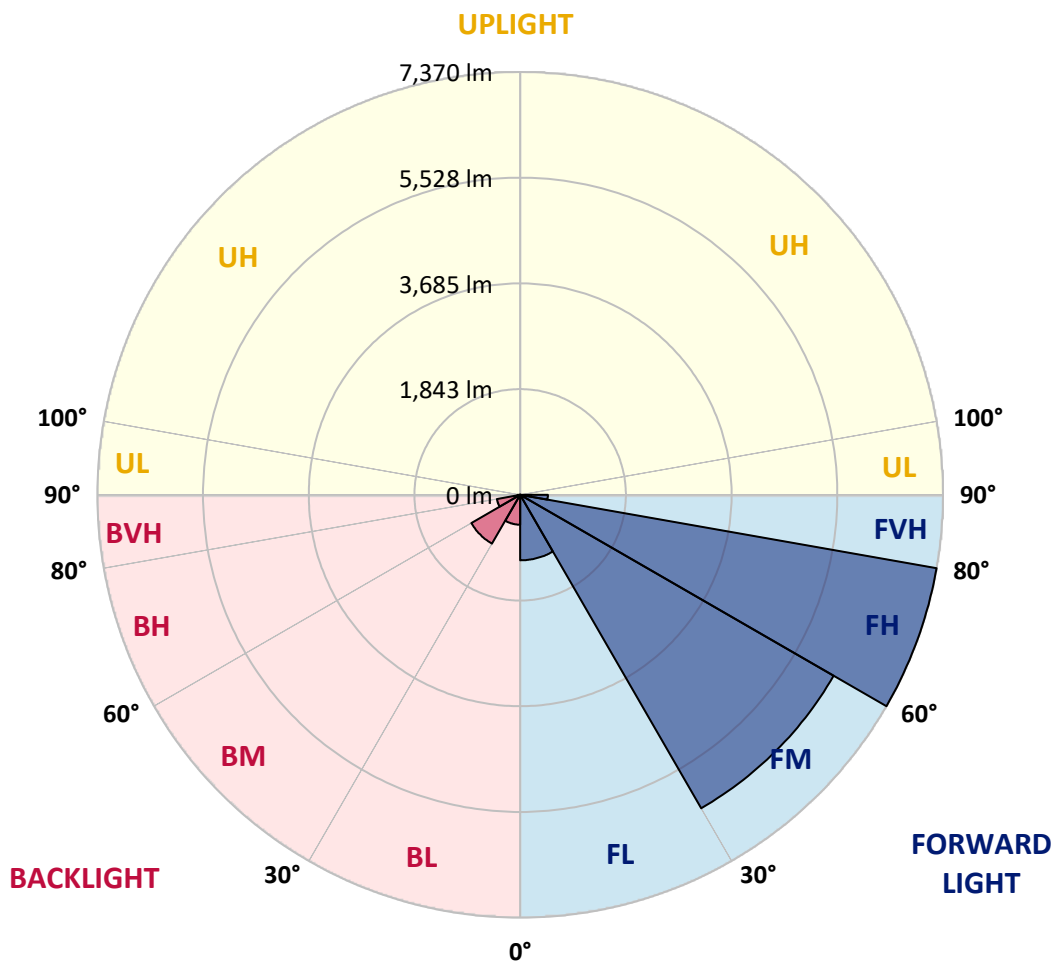
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1142.0	6.6			
FM	(30°-60°)	6309.1	36.5			
FH	(60°-80°)	7370.5	42.7			G3/7500
FVH	(80°-90°)	482.5	2.8			G3/500
BL	(0°-30°)	521.0	3.0	B2/1000		
BM	(30°-60°)	982.8	5.7	B1/1000		
BH	(60°-80°)	412.3	2.4	B1/500		G1/500
BVH	(80°-90°)	47.8	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6
2.5°	2672.5	2671.6	2664.6	2659.3	2654.9	2653.2	2656.7	2643.5	2632.1	2618.0	2603.1
5°	2652.3	2651.4	2640.0	2629.5	2618.9	2615.4	2614.5	2590.8	2576.8	2555.7	2527.6
7.5°	2630.3	2625.9	2611.0	2593.5	2575.0	2566.2	2557.5	2526.7	2510.9	2489.9	2457.4
10°	2607.5	2602.2	2588.2	2570.6	2553.1	2539.9	2525.0	2495.1	2478.4	2462.6	2424.9
12.5°	2583.8	2579.4	2575.9	2568.0	2555.7	2544.3	2532.9	2507.4	2489.9	2471.4	2427.5
15°	2580.3	2578.5	2586.4	2591.7	2584.7	2577.7	2565.4	2543.4	2525.0	2506.5	2449.5
17.5°	2608.4	2607.5	2627.7	2641.7	2638.2	2625.9	2609.3	2584.7	2569.8	2553.9	2482.8
20°	2669.8	2674.2	2698.8	2717.2	2699.7	2682.1	2654.9	2620.7	2612.8	2605.7	2517.1
22.5°	2785.7	2790.1	2807.7	2814.7	2769.0	2743.6	2705.8	2661.9	2656.7	2661.9	2558.3
25°	2966.6	2962.2	2959.6	2933.2	2849.8	2810.3	2762.0	2716.4	2719.0	2742.7	2616.3
27.5°	3206.3	3182.6	3145.7	3066.7	2934.1	2890.2	2831.4	2789.2	2805.9	2851.6	2703.2
30°	3454.7	3428.4	3343.2	3214.2	3044.7	2996.4	2930.6	2883.2	2927.1	2999.1	2819.1
32.5°	3684.7	3681.2	3556.6	3390.6	3197.5	3155.3	3089.5	3035.9	3107.1	3216.8	2992.9
35°	3935.8	3943.7	3794.5	3595.2	3403.8	3359.9	3312.5	3272.1	3366.9	3517.9	3244.9
37.5°	4204.5	4220.3	4043.8	3819.1	3639.1	3620.7	3592.6	3575.0	3721.6	3930.6	3596.9
40°	4563.6	4547.8	4302.8	4071.9	3927.9	3927.1	3918.3	3939.3	4183.4	4469.6	4049.1
42.5°	4948.1	4901.6	4577.6	4343.2	4244.9	4274.7	4292.3	4378.3	4739.2	5124.6	4600.4
45°	5362.5	5258.0	4862.9	4630.3	4596.9	4660.1	4719.8	4906.8	5393.2	5870.0	5204.5
47.5°	5693.5	5592.5	5157.9	4931.4	5004.3	5100.0	5215.0	5510.9	6125.4	6639.9	5800.6
50°	5954.2	5888.4	5455.6	5282.6	5452.9	5600.4	5788.3	6194.8	6887.5	7389.7	6352.8
52.5°	6207.1	6157.9	5755.8	5642.6	5979.7	6183.4	6438.9	6928.8	7668.9	8127.2	6817.3
55°	6435.4	6400.2	6078.9	6091.2	6599.5	6864.7	7186.0	7764.6	8520.5	8784.7	7210.6
57.5°	6692.6	6647.8	6447.6	6654.0	7395.8	7740.0	8157.9	8704.0	9319.4	9369.5	7510.0
60°	6951.6	6913.0	6856.8	7303.6	8407.2	8768.9	9164.9	9614.4	10129.8	9823.4	7492.4
62.5°	7176.3	7180.7	7279.9	7985.8	9397.5	9816.3	10299.2	10743.4	10862.8	9902.4	6938.4
65°	7557.4	7626.7	7922.6	8951.5	10791.7	11351.9	11944.5	11873.4	11065.6	9164.0	5750.6
67.5°	8010.4	8132.4	8732.1	10238.6	12553.8	13297.4	13526.5	12128.8	10253.5	7449.4	4099.1
70°	7964.7	8132.4	9081.5	11198.2	14005.9	14504.6	13809.2	10977.0	8142.1	4866.5	2177.3
72.5°	7072.7	7312.4	8369.5	10758.4	13548.5	13504.6	11988.4	8183.3	4837.5	1954.3	850.7
75°	5390.6	5632.9	6542.5	8499.4	10708.3	10339.6	8506.4	4520.5	1835.8	776.1	536.4
77.5°	3100.9	3288.8	3991.1	5212.4	6793.6	6415.2	4734.8	2010.5	893.8	540.8	418.8
80°	1731.3	1835.8	2262.5	2644.4	3329.2	3051.7	2118.5	1249.3	667.2	392.4	323.1
82.5°	1368.7	1461.8	1829.6	1668.1	1520.6	1403.0	1216.8	1112.4	532.9	247.6	193.1
85°	1195.8	1284.4	1548.7	1313.4	1038.6	952.6	988.6	1094.8	414.4	149.3	165.1
87.5°	1108.0	1226.5	1380.1	1012.3	808.6	716.4	912.2	1200.2	133.4	93.1	66.7
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°	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6	2621.6
2.5°	2589.9	2575.9	2553.1	2532.9	2501.3	2484.6	2466.2	2453.0	2442.4	2433.7	2447.7
5°	2510.1	2483.7	2435.4	2383.6	2322.2	2273.9	2233.5	2195.7	2169.4	2151.8	2164.1
7.5°	2434.5	2391.5	2316.0	2222.1	2116.7	2027.2	1953.4	1888.5	1843.7	1814.7	1826.1
10°	2391.5	2338.0	2221.2	2073.7	1918.3	1778.7	1662.8	1562.7	1493.4	1453.9	1460.0
12.5°	2381.0	2311.6	2150.1	1947.3	1734.8	1540.8	1377.5	1238.8	1141.3	1090.4	1092.2
15°	2388.9	2300.2	2083.4	1826.1	1557.5	1312.5	1108.8	940.3	827.0	769.1	768.2
17.5°	2402.1	2291.4	2013.1	1695.3	1377.5	1093.0	865.7	700.6	600.5	554.0	550.5
20°	2416.1	2277.4	1934.1	1554.0	1190.5	889.4	677.8	548.7	485.5	460.0	458.3
22.5°	2436.3	2265.1	1852.5	1404.7	1007.0	724.3	557.5	470.6	437.2	424.0	422.3
25°	2468.8	2259.0	1765.6	1249.3	842.0	605.8	485.5	431.9	412.6	403.9	403.0
27.5°	2523.2	2267.7	1683.9	1098.3	707.6	525.9	445.1	412.6	398.6	390.7	389.8
30°	2593.5	2295.0	1597.9	955.2	603.1	471.5	420.5	399.5	388.1	380.2	380.2
32.5°	2710.2	2340.6	1507.4	831.4	528.5	433.7	402.1	388.1	378.4	372.2	371.4
35°	2882.3	2426.6	1423.2	728.7	475.0	406.5	386.3	375.8	368.7	365.2	365.2
37.5°	3132.5	2562.7	1348.5	654.9	442.5	388.1	371.4	363.5	359.1	359.1	359.1
40°	3468.8	2750.6	1287.9	605.8	424.0	374.9	360.0	353.8	351.2	352.1	352.1
42.5°	3884.0	2994.7	1247.6	571.5	415.3	367.0	352.1	346.8	344.2	343.3	344.2
45°	4357.3	3272.1	1243.2	546.1	406.5	361.7	346.8	341.5	336.3	332.7	332.7
47.5°	4817.3	3553.9	1279.2	537.3	396.8	355.6	342.4	337.1	329.2	321.3	321.3
50°	5223.8	3793.6	1327.5	540.8	393.3	346.8	335.4	332.7	320.5	311.7	310.8
52.5°	5546.9	3978.0	1367.0	551.4	396.8	340.6	326.6	327.5	314.3	304.6	303.8
55°	5805.9	4099.1	1356.4	561.9	404.7	337.1	318.7	320.5	309.9	300.3	300.3
57.5°	5919.1	4054.4	1239.7	553.1	410.9	338.0	312.5	319.6	310.8	302.0	302.0
60°	5675.9	3656.6	1021.1	514.5	403.0	335.4	309.9	323.1	322.2	313.4	312.5
62.5°	4940.2	2944.6	791.9	457.4	375.8	322.2	302.9	322.2	331.9	329.2	328.4
65°	3807.7	2097.4	604.9	396.0	338.9	300.3	284.5	302.0	315.2	318.7	317.8
67.5°	2471.4	1285.3	466.2	338.0	297.6	274.8	260.8	268.7	271.3	271.3	269.5
70°	1215.1	691.8	371.4	284.5	255.5	247.6	239.7	235.3	230.9	227.4	227.4
72.5°	599.6	452.1	305.5	240.6	220.4	216.9	215.1	209.8	206.3	201.9	200.2
75°	443.4	367.9	259.9	202.8	189.6	186.1	189.6	185.2	184.4	180.9	179.1
77.5°	364.3	313.4	223.9	173.8	162.4	156.3	161.5	162.4	163.3	158.0	156.3
80°	295.9	265.1	187.0	144.0	133.4	129.1	132.6	139.6	141.3	133.4	129.9
82.5°	213.3	216.9	151.0	112.4	103.6	100.1	107.1	115.9	117.6	106.2	103.6
85°	179.1	180.9	115.9	79.9	71.1	65.8	77.3	86.0	92.2	80.8	78.1
87.5°	74.6	106.2	66.7	44.8	39.5	34.2	41.3	45.7	55.3	50.9	50.0
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)