

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: P302763

Luminaire Tested: **GLNA-AF-01-LED-E1-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-T4W-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5966 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

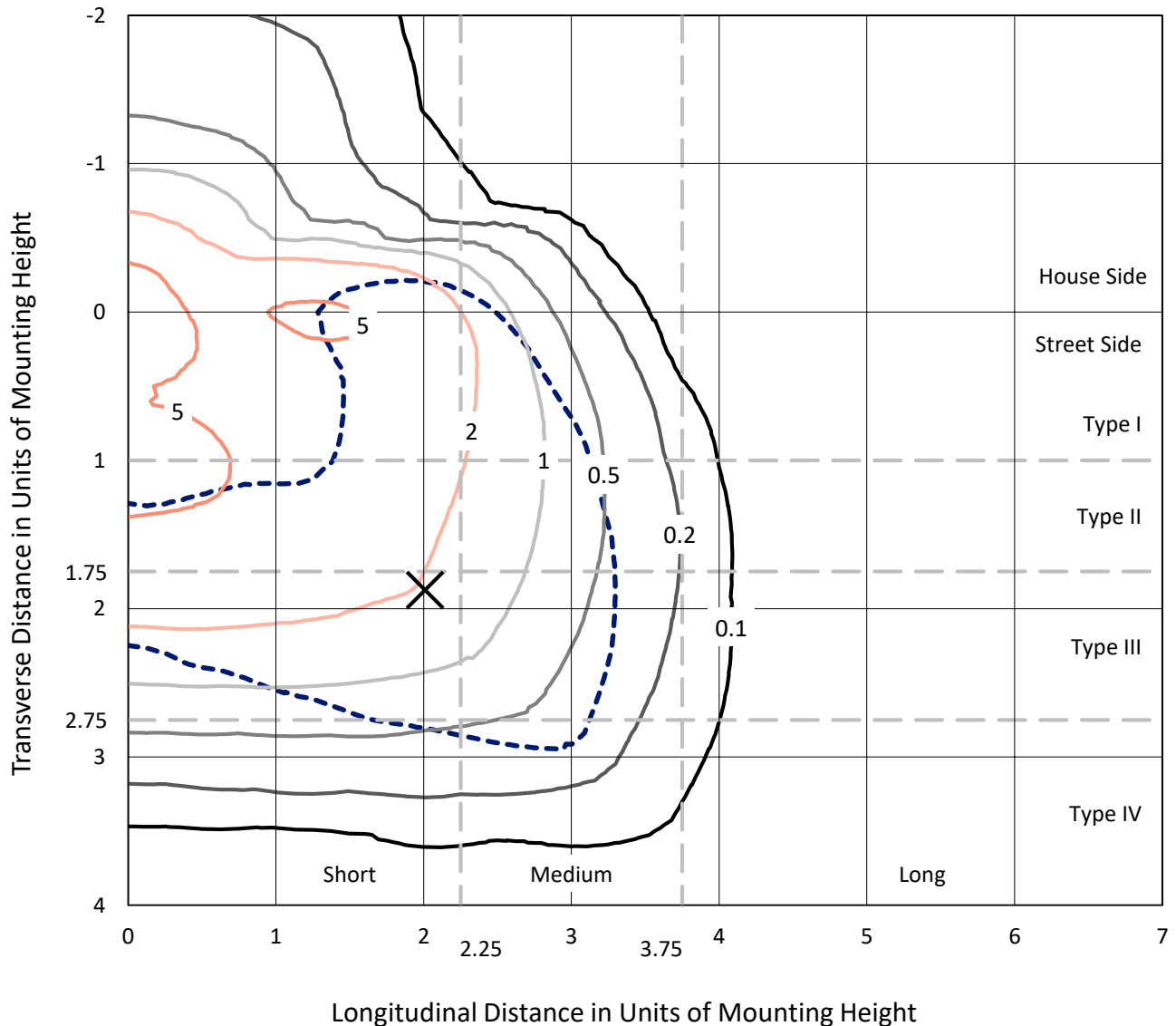
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

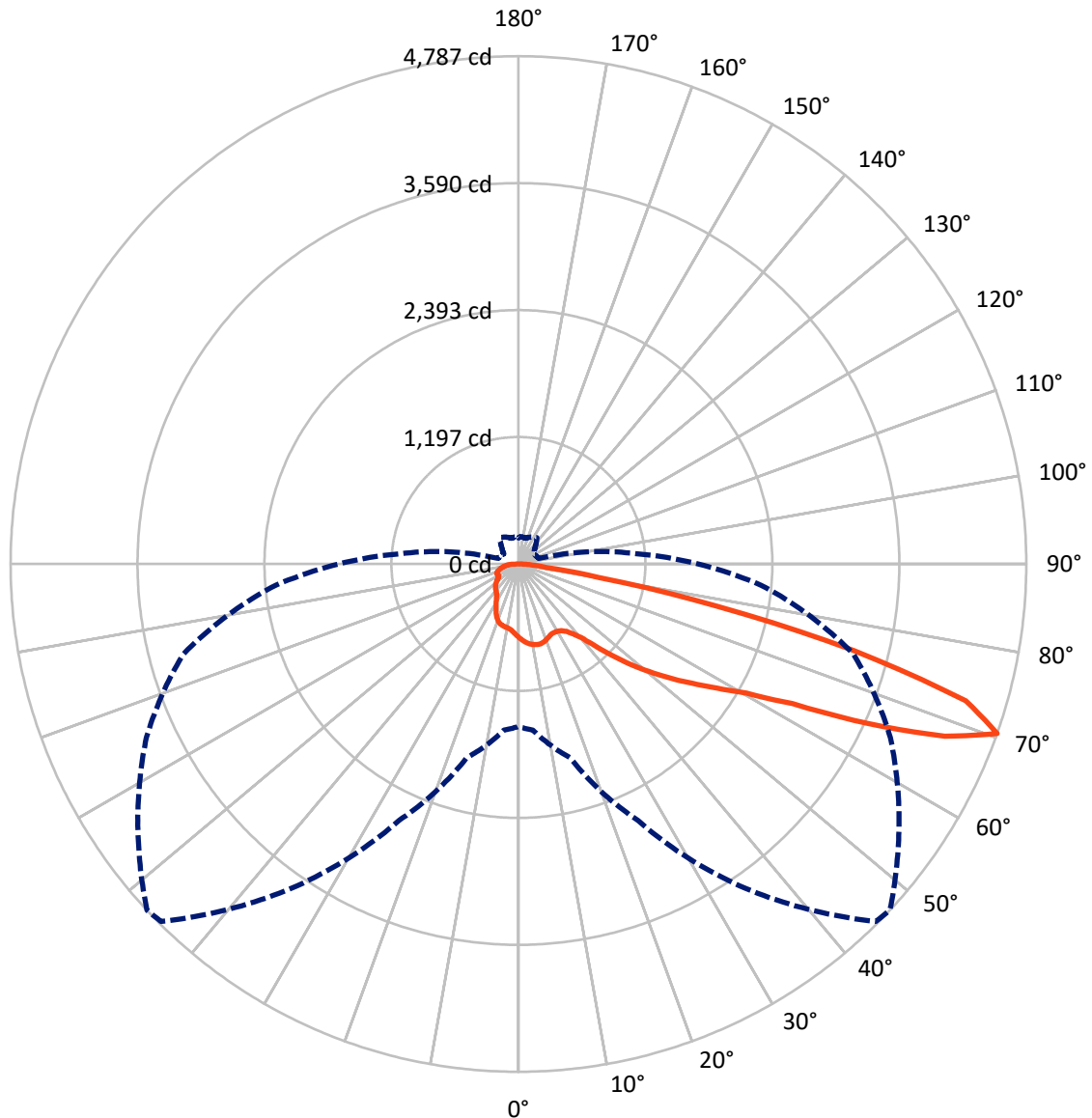
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.6	0.0	1244.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4721.4	0.0	4721.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	5966.0	0.0	5966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.1
10°-20°	194.6	3.3
20°-30°	287.4	4.8
30°-40°	417.7	7.0
40°-50°	751.6	12.6
50°-60°	1302.2	21.8
60°-70°	1858.6	31.2
70°-80°	954.1	16.0
80°-90°	133.6	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°	5966.0	100.0
0°-180°	5966.0	100.0

Coefficient of Utilization



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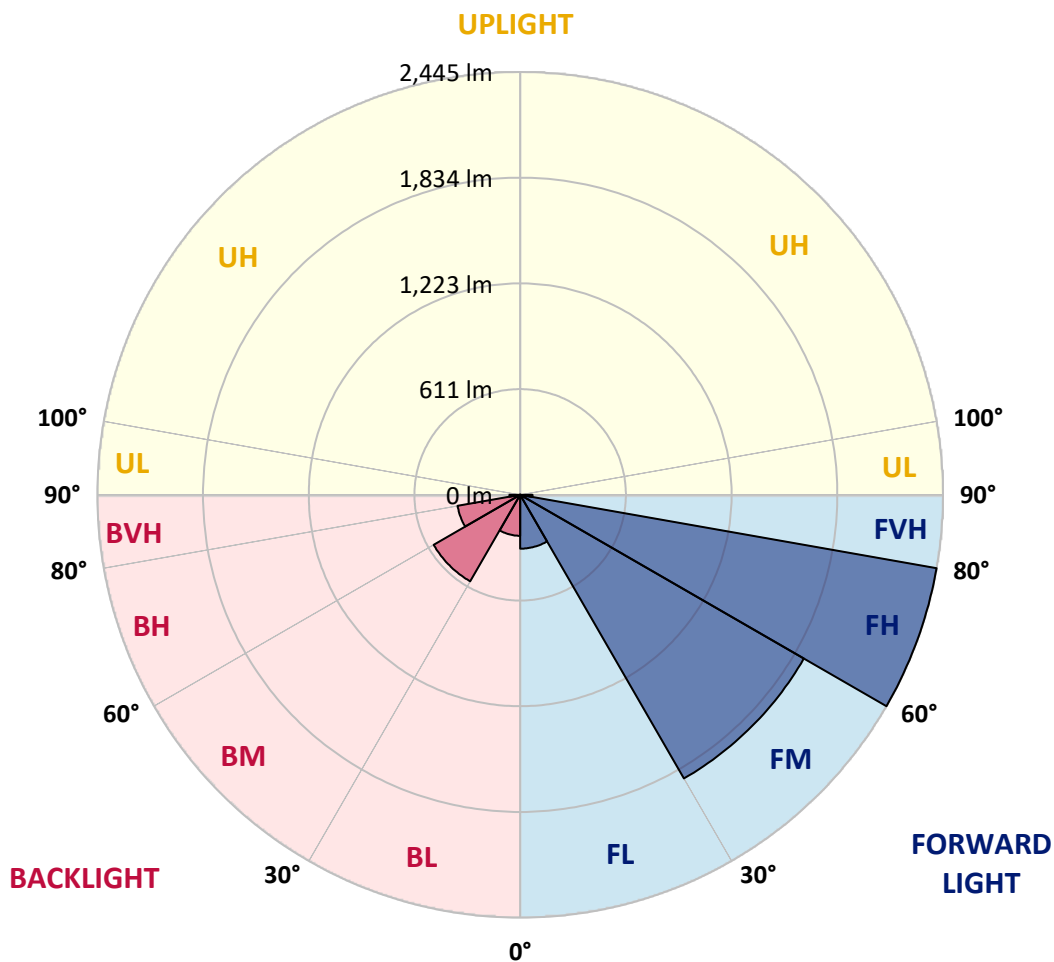
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.3	5.2			
FM	(30°-60°)	1893.8	31.7			
FH	(60°-80°)	2445.0	41.0			G2/5000
FVH	(80°-90°)	71.3	1.2			G1/100
BL	(0°-30°)	237.0	4.0	B1/500		
BM	(30°-60°)	577.7	9.7	B1/1000		
BH	(60°-80°)	367.6	6.2	B1/500		G1/500
BVH	(80°-90°)	62.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2
2.5°	732.9	731.5	730.9	729.7	728.3	721.0	719.5	714.3	707.1	699.5	691.6
5°	781.1	780.8	777.5	771.8	762.5	746.5	742.7	730.0	712.9	696.3	679.8
7.5°	823.4	820.8	814.7	803.1	786.9	765.1	759.9	742.2	718.6	696.0	673.6
10°	854.5	853.0	839.7	823.7	802.5	778.4	772.3	752.6	726.7	698.0	670.1
12.5°	872.2	869.3	853.9	834.8	809.5	786.0	779.8	759.9	730.9	698.0	665.2
15°	871.0	869.0	853.6	832.7	807.2	786.6	781.1	761.1	730.0	695.1	658.9
17.5°	847.8	848.7	835.7	815.0	794.1	778.4	773.5	755.0	724.1	689.3	651.4
20°	807.2	811.3	802.5	784.3	772.6	761.9	758.7	743.0	715.2	680.9	643.2
22.5°	766.5	770.3	766.8	751.4	749.7	743.3	741.6	730.3	707.4	675.7	638.2
25°	736.7	740.1	739.6	726.2	731.5	731.2	729.7	724.1	705.6	675.7	639.1
27.5°	728.6	729.7	728.6	716.3	723.6	729.4	728.3	727.3	710.8	684.1	650.2
30°	756.4	754.7	745.6	721.0	727.7	735.8	734.6	735.2	726.4	706.2	674.9
32.5°	867.6	859.7	831.2	761.9	744.2	748.5	749.1	758.7	760.2	740.1	713.1
35°	1033.9	1025.2	988.3	871.6	795.6	780.5	780.5	795.0	803.7	788.9	772.6
37.5°	1210.1	1200.4	1180.8	1023.7	903.5	836.0	834.5	844.6	857.1	860.6	864.7
40°	1410.3	1400.2	1405.7	1194.4	1054.2	932.0	911.3	904.1	937.7	960.1	992.7
42.5°	1629.5	1624.8	1626.8	1384.4	1225.7	1075.7	1046.4	1008.9	1049.6	1089.3	1157.5
45°	1832.3	1836.4	1834.3	1587.9	1416.7	1250.9	1219.9	1147.3	1187.1	1255.3	1366.5
47.5°	2010.0	1993.1	2019.2	1810.2	1630.6	1447.2	1408.8	1311.7	1352.0	1436.1	1624.2
50°	2225.6	2223.3	2185.0	2106.9	1889.2	1644.2	1594.0	1481.4	1544.1	1661.1	1949.0
52.5°	2452.3	2410.2	2375.1	2337.6	2163.5	1846.3	1784.7	1650.6	1769.9	1917.0	2344.9
55°	2498.7	2479.9	2523.4	2586.4	2427.9	2056.1	1984.4	1862.8	2024.2	2209.7	2801.5
57.5°	2598.0	2597.7	2687.7	2800.0	2700.2	2278.7	2206.4	2119.1	2310.0	2544.9	3286.2
60°	2665.1	2683.9	2851.1	3069.1	2967.5	2535.9	2469.4	2414.8	2635.2	2919.6	3737.8
62.5°	2700.2	2725.7	2953.9	3178.2	3345.3	2964.0	2897.6	2818.9	3065.3	3330.6	4001.9
65°	2554.2	2604.3	2937.9	3272.6	3676.3	3658.0	3628.1	3489.9	3603.1	3655.4	3906.5
67.5°	2150.1	2201.5	2589.9	3184.6	3912.5	4327.3	4333.7	4097.7	3934.0	3683.2	3284.4
70°	1531.9	1572.2	1893.6	2670.0	3732.6	4764.7	4786.5	4377.8	3868.1	3266.4	2294.7
72.5°	727.3	752.0	1056.2	1737.7	2962.0	4365.6	4407.7	4020.2	3289.1	2418.3	1251.8
75°	267.3	274.8	357.0	739.3	1718.0	3219.5	3269.1	2881.9	2180.3	1204.0	476.9
77.5°	160.2	165.1	200.3	312.0	675.7	1840.2	1913.6	1567.3	952.9	448.1	234.5
80°	112.0	115.5	143.6	194.1	319.3	701.3	766.5	639.7	379.6	283.6	170.6
82.5°	75.8	77.5	101.0	131.2	212.2	250.4	270.2	284.5	256.0	211.0	108.3
85°	49.6	51.4	68.5	86.5	135.0	129.5	132.4	167.4	186.9	143.3	60.1
87.5°	28.4	29.6	41.3	46.2	66.2	54.8	55.4	88.2	119.6	96.7	36.5
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°	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2	692.2
2.5°	689.6	685.9	677.5	672.2	667.3	666.1	664.1	663.8	663.5	663.5	662.6
5°	674.2	667.8	654.8	647.5	641.4	640.8	640.6	642.0	642.6	643.2	642.3
7.5°	664.4	655.7	639.4	629.0	621.8	619.9	622.9	629.6	633.9	635.6	634.8
10°	658.3	647.5	628.7	617.3	611.3	610.4	614.1	622.0	631.0	634.5	634.2
12.5°	651.4	639.1	619.1	607.2	603.7	605.5	610.4	617.6	627.0	632.5	632.7
15°	644.3	630.1	609.5	599.1	597.7	600.0	604.6	610.1	617.3	622.9	623.5
17.5°	635.9	621.1	600.6	589.8	588.6	589.8	590.0	592.9	597.7	602.9	604.3
20°	627.0	611.8	590.3	579.6	574.4	569.8	564.5	565.1	566.5	571.8	573.0
22.5°	620.5	605.5	582.5	567.7	553.8	539.8	529.4	528.0	528.5	532.9	534.3
25°	621.1	605.2	580.5	555.0	524.5	502.1	488.2	485.8	485.5	488.7	490.9
27.5°	632.5	616.5	588.0	541.8	492.6	459.4	444.7	442.9	440.6	441.5	443.8
30°	657.7	642.9	606.3	528.5	458.0	417.7	402.3	400.5	397.3	395.9	397.6
32.5°	698.9	686.7	633.0	515.7	423.5	381.9	366.3	362.5	360.5	358.8	360.2
35°	767.4	762.2	668.7	501.8	393.0	354.4	340.2	334.4	331.5	334.7	337.0
37.5°	874.8	877.7	715.5	480.1	369.5	336.1	324.2	317.5	313.2	315.8	318.4
40°	1026.9	1028.9	767.1	449.3	349.1	325.3	312.6	306.5	300.4	295.7	295.5
42.5°	1226.6	1206.0	817.9	416.0	325.6	318.7	304.5	296.9	287.6	274.8	272.2
45°	1463.4	1391.2	856.5	377.6	299.2	310.6	295.5	285.0	270.5	256.6	255.2
47.5°	1736.3	1590.0	875.4	337.9	274.5	298.6	284.5	267.9	249.6	242.6	241.8
50°	2069.4	1825.9	884.3	299.2	253.1	283.0	268.5	249.0	233.7	232.2	231.4
52.5°	2448.9	2109.8	887.3	267.6	235.4	262.7	255.5	236.6	224.3	225.6	225.6
55°	2845.9	2403.0	847.8	244.7	219.1	241.8	246.7	231.6	221.4	226.1	227.9
57.5°	3210.4	2662.8	723.6	227.0	203.8	225.9	243.5	236.3	229.3	248.1	249.3
60°	3490.2	2816.2	540.4	211.0	192.4	220.3	252.0	254.0	255.7	300.7	306.8
62.5°	3548.8	2765.2	371.5	198.6	187.2	225.0	267.3	267.6	265.6	296.9	300.7
65°	3279.8	2442.1	270.2	191.5	182.9	233.4	280.4	274.2	260.9	284.8	277.7
67.5°	2604.6	1839.9	225.0	186.3	176.5	232.8	294.3	280.4	258.3	279.0	267.6
70°	1690.7	1112.5	200.3	182.0	168.9	221.7	302.4	279.8	250.7	259.5	246.1
72.5°	824.9	497.5	183.7	175.6	161.1	206.4	302.1	274.5	242.9	242.3	235.1
75°	322.7	227.9	168.6	166.0	147.8	188.9	294.0	267.0	233.7	224.3	221.7
77.5°	188.9	162.5	149.5	151.8	131.8	171.5	282.2	254.0	220.8	209.9	207.0
80°	137.6	121.7	127.4	131.2	112.6	154.1	266.2	238.0	206.7	212.2	208.1
82.5°	88.2	78.4	103.3	107.1	93.8	136.4	248.7	221.1	186.6	169.5	165.4
85°	45.0	49.6	76.9	81.6	72.3	112.0	227.6	198.9	164.0	141.0	143.3
87.5°	25.3	33.9	49.1	54.8	51.1	86.2	184.6	164.0	133.8	108.8	95.8
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)