

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: P302762

Luminaire Tested: **GLNA-AF-01-LED-E1-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302762
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-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5358.8 lumens
Efficiency: N/A
Efficacy: 90.8 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

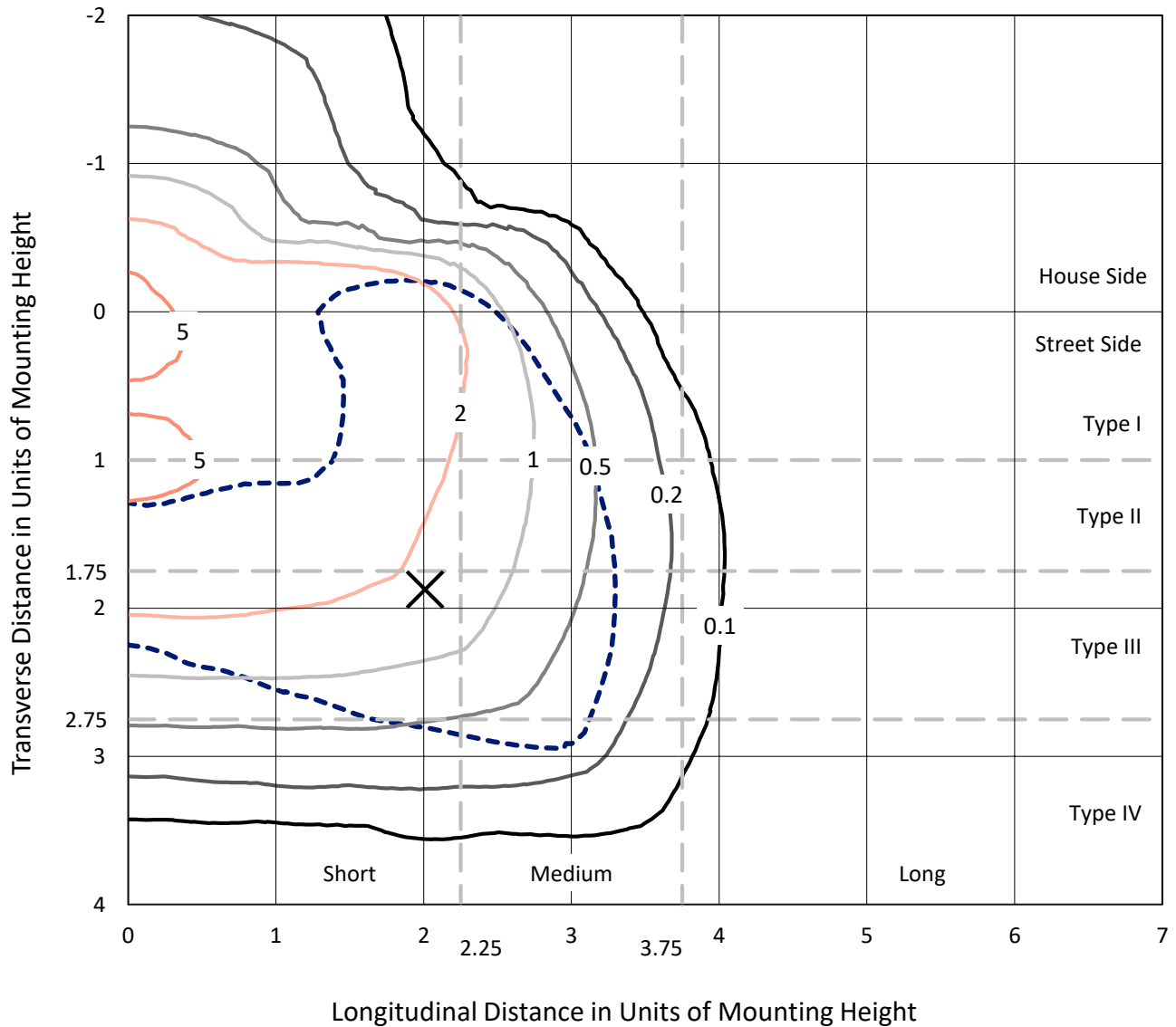
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

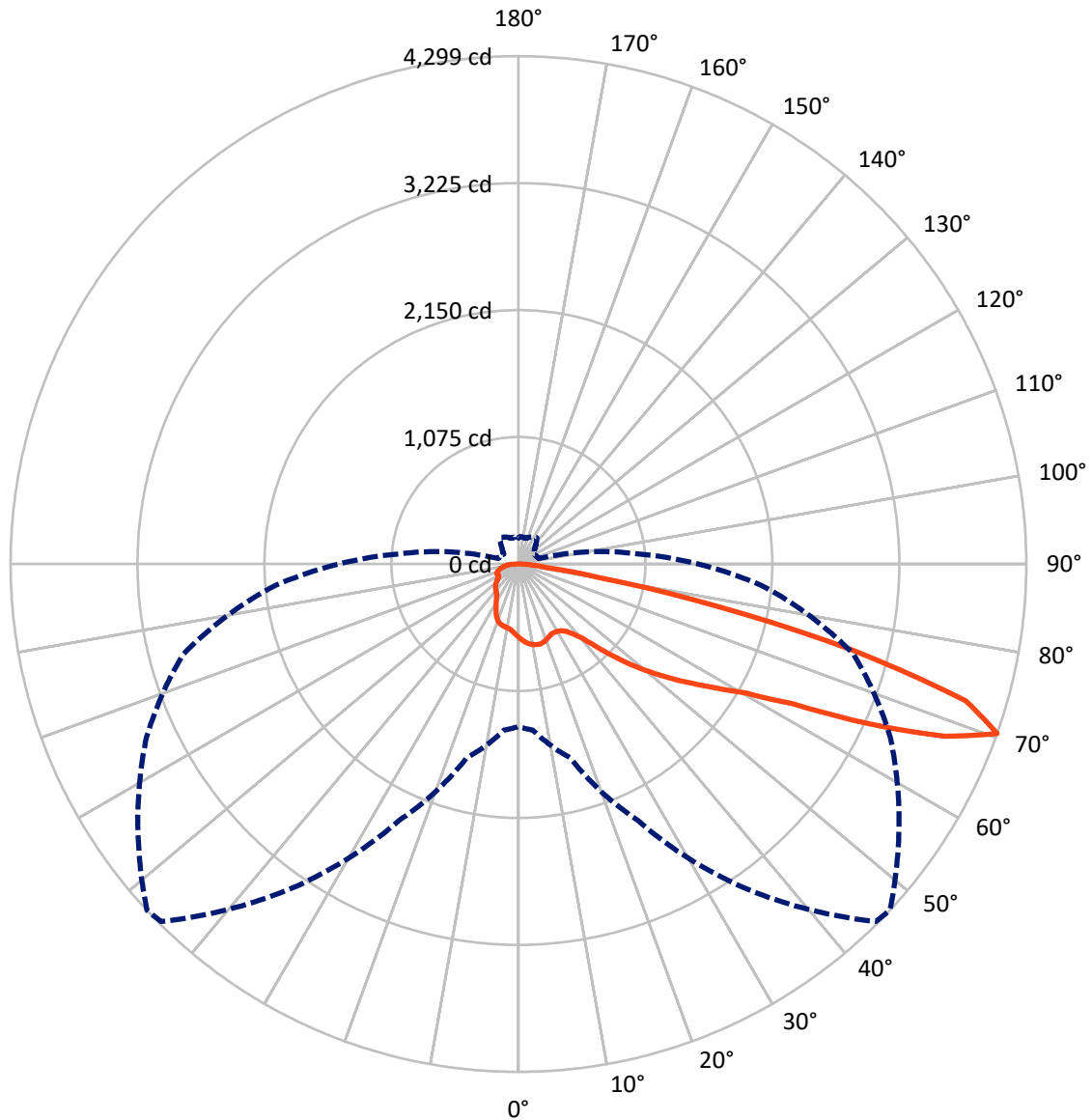
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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	1118.0	0.0	1118.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4240.9	0.0	4240.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	5358.8	0.0	5358.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.1
10°-20°	174.8	3.3
20°-30°	258.1	4.8
30°-40°	375.2	7.0
40°-50°	675.2	12.6
50°-60°	1169.6	21.8
60°-70°	1669.4	31.2
70°-80°	857.0	16.0
80°-90°	120.0	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°	5358.8	100.0
0°-180°	5358.8	100.0



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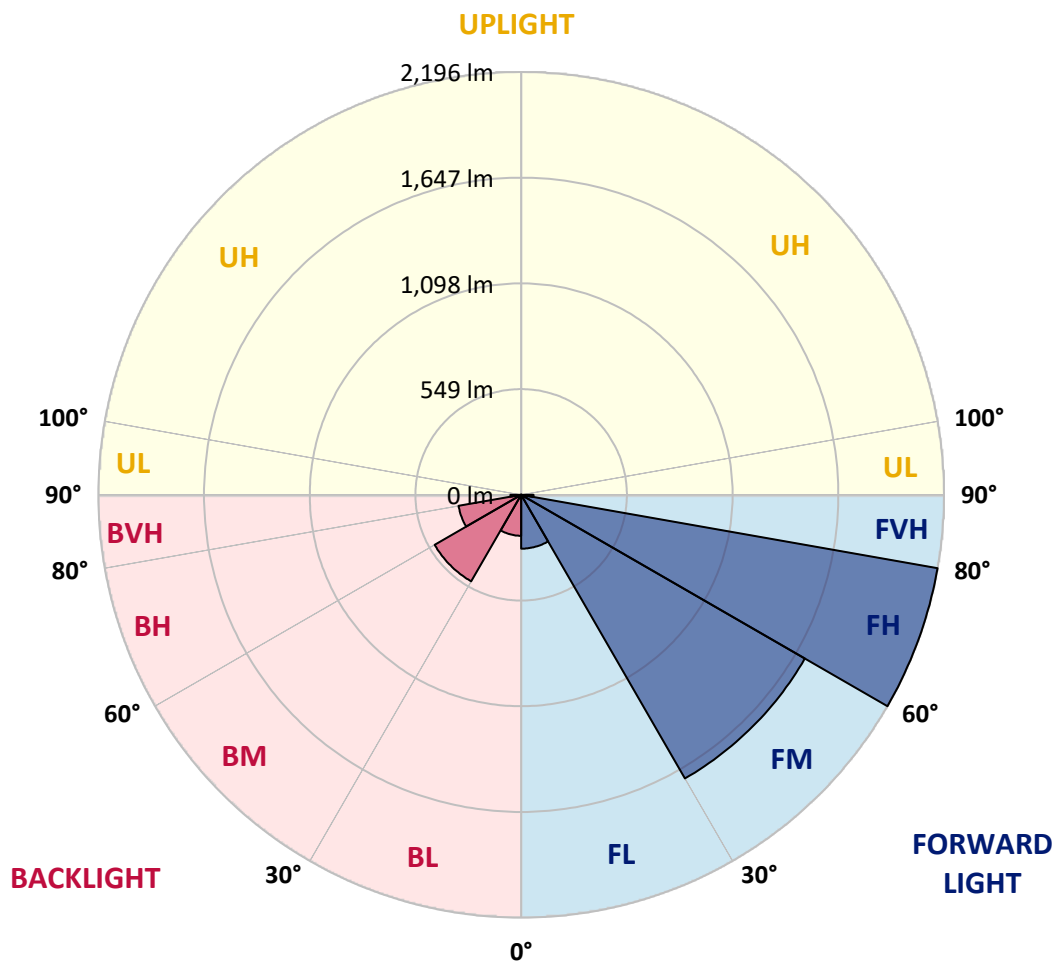
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.6	5.2			
FM	(30°-60°)	1701.0	31.7			
FH	(60°-80°)	2196.2	41.0			G2/5000
FVH	(80°-90°)	64.0	1.2			G1/100
BL	(0°-30°)	212.9	4.0	B1/500		
BM	(30°-60°)	518.9	9.7	B1/1000		
BH	(60°-80°)	330.2	6.2	B1/500		G1/500
BVH	(80°-90°)	56.0	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°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8
2.5°	658.3	657.0	656.5	655.5	654.2	647.6	646.3	641.6	635.1	628.3	621.3
5°	701.6	701.3	698.4	693.2	684.9	670.5	667.1	655.7	640.3	625.4	610.6
7.5°	739.6	737.3	731.8	721.4	706.8	687.2	682.6	666.6	645.5	625.2	605.1
10°	767.5	766.2	754.3	739.9	720.8	699.2	693.7	676.0	652.8	627.0	601.9
12.5°	783.4	780.8	767.0	749.8	727.2	706.0	700.5	682.6	656.5	627.0	597.5
15°	782.4	780.6	766.7	747.9	725.1	706.5	701.6	683.6	655.7	624.4	591.8
17.5°	761.5	762.3	750.6	732.1	713.3	699.2	694.8	678.1	650.4	619.2	585.1
20°	725.1	728.7	720.8	704.5	694.0	684.4	681.5	667.4	642.4	611.6	577.7
22.5°	688.5	691.9	688.8	674.9	673.4	667.7	666.1	656.0	635.4	607.0	573.3
25°	661.7	664.8	664.3	652.3	657.0	656.8	655.5	650.4	633.8	607.0	574.1
27.5°	654.4	655.5	654.4	643.4	649.9	655.2	654.2	653.3	638.5	614.5	584.0
30°	679.4	677.9	669.7	647.6	653.6	660.9	659.9	660.4	652.5	634.3	606.2
32.5°	779.3	772.2	746.6	684.4	668.4	672.3	672.9	681.5	682.8	664.8	640.6
35°	928.6	920.8	887.7	782.9	714.6	701.1	701.1	714.1	721.9	708.6	694.0
37.5°	1086.9	1078.3	1060.6	919.5	811.6	750.9	749.6	758.7	769.8	773.0	776.7
40°	1266.8	1257.7	1262.6	1072.8	946.9	837.1	818.6	812.1	842.3	862.4	891.7
42.5°	1463.7	1459.4	1461.2	1243.6	1100.9	966.2	939.9	906.2	942.8	978.4	1039.7
45°	1645.8	1649.5	1647.7	1426.3	1272.6	1123.6	1095.7	1030.5	1066.3	1127.5	1227.4
47.5°	1805.4	1790.3	1813.7	1626.0	1464.7	1299.9	1265.5	1178.2	1214.4	1290.0	1458.9
50°	1999.1	1997.0	1962.7	1892.5	1696.9	1476.9	1431.8	1330.7	1386.9	1492.1	1750.7
52.5°	2202.8	2164.9	2133.4	2099.7	1943.3	1658.4	1603.1	1482.6	1589.8	1721.9	2106.3
55°	2244.4	2227.5	2266.6	2323.2	2180.8	1846.9	1782.5	1673.2	1818.2	1984.8	2516.4
57.5°	2333.6	2333.3	2414.2	2515.1	2425.4	2046.8	1981.9	1903.4	2075.0	2285.9	2951.7
60°	2393.9	2410.7	2561.0	2756.7	2665.5	2277.8	2218.1	2169.1	2367.0	2622.4	3357.4
62.5°	2425.4	2448.3	2653.3	2854.7	3004.9	2662.4	2602.7	2532.0	2753.4	2991.6	3594.6
65°	2294.3	2339.3	2638.9	2939.5	3302.1	3285.7	3258.8	3134.8	3236.4	3283.4	3508.9
67.5°	1931.3	1977.5	2326.3	2860.5	3514.4	3886.9	3892.7	3680.7	3533.7	3308.4	2950.2
70°	1376.0	1412.2	1700.9	2398.3	3352.7	4279.8	4299.4	3932.2	3474.4	2934.0	2061.2
72.5°	653.3	675.5	948.7	1560.9	2660.5	3921.3	3959.2	3611.1	2954.3	2172.2	1124.4
75°	240.1	246.9	320.6	664.0	1543.1	2891.8	2936.4	2588.6	1958.4	1081.5	428.3
77.5°	143.9	148.3	179.9	280.3	607.0	1652.9	1718.8	1407.8	855.9	402.5	210.7
80°	100.6	103.7	129.0	174.4	286.8	629.9	688.5	574.6	341.0	254.7	153.3
82.5°	68.1	69.6	90.7	117.8	190.6	225.0	242.7	255.5	230.0	189.5	97.2
85°	44.6	46.2	61.6	77.7	121.2	116.3	118.9	150.4	167.9	128.8	53.9
87.5°	25.5	26.6	37.1	41.5	59.5	49.3	49.8	79.2	107.5	86.8	32.8
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°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8
2.5°	619.4	616.1	608.5	603.8	599.4	598.3	596.5	596.2	596.0	596.0	595.2
5°	605.6	599.9	588.2	581.6	576.1	575.6	575.4	576.7	577.2	577.7	576.9
7.5°	596.8	589.0	574.3	565.0	558.5	556.8	559.5	565.5	569.4	570.9	570.2
10°	591.3	581.6	564.7	554.5	549.0	548.3	551.6	558.7	566.8	569.9	569.7
12.5°	585.1	574.1	556.1	545.4	542.3	543.8	548.3	554.8	563.2	568.1	568.4
15°	578.7	566.0	547.5	538.1	536.8	538.9	543.1	548.0	554.5	559.5	560.0
17.5°	571.2	557.9	539.4	529.7	528.7	529.7	530.0	532.6	536.8	541.5	542.8
20°	563.2	549.6	530.3	520.6	516.0	511.8	507.0	507.6	508.9	513.6	514.7
22.5°	557.4	543.8	523.2	509.9	497.4	484.9	475.5	474.2	474.8	478.6	479.9
25°	557.9	543.6	521.4	498.5	471.1	451.0	438.5	436.4	436.1	439.0	440.9
27.5°	568.1	553.7	528.2	486.7	442.5	412.7	399.4	397.9	395.8	396.6	398.6
30°	590.8	577.4	544.6	474.8	411.4	375.2	361.3	359.8	356.9	355.6	357.2
32.5°	627.8	616.8	568.6	463.2	380.4	343.1	329.0	325.7	323.8	322.3	323.6
35°	689.3	684.6	600.6	450.8	353.0	318.3	305.6	300.4	297.8	300.6	302.7
37.5°	785.8	788.4	642.6	431.2	331.9	301.9	291.2	285.2	281.3	283.7	286.0
40°	922.4	924.2	689.1	403.6	313.6	292.2	280.8	275.3	269.8	265.6	265.4
42.5°	1101.7	1083.3	734.7	373.6	292.5	286.3	273.5	266.7	258.4	246.9	244.5
45°	1314.5	1249.6	769.3	339.2	268.8	279.0	265.4	256.0	243.0	230.5	229.2
47.5°	1559.6	1428.2	786.3	303.5	246.6	268.2	255.5	240.6	224.2	217.9	217.2
50°	1858.8	1640.1	794.3	268.8	227.4	254.2	241.1	223.7	209.9	208.6	207.8
52.5°	2199.6	1895.1	797.0	240.4	211.4	235.9	229.5	212.5	201.5	202.6	202.6
55°	2556.3	2158.4	761.5	219.8	196.8	217.2	221.6	208.1	198.9	203.1	204.7
57.5°	2883.7	2391.8	649.9	203.9	183.0	202.9	218.7	212.2	206.0	222.9	223.9
60°	3135.0	2529.6	485.4	189.5	172.8	197.8	226.3	228.2	229.7	270.1	275.6
62.5°	3187.7	2483.8	333.7	178.4	168.2	202.1	240.1	240.4	238.5	266.7	270.1
65°	2946.0	2193.6	242.7	172.0	164.3	209.6	251.9	246.3	234.4	255.8	249.5
67.5°	2339.6	1652.7	202.1	167.4	158.5	209.1	264.3	251.9	232.1	250.6	240.4
70°	1518.6	999.3	179.9	163.5	151.7	199.1	271.6	251.4	225.2	233.1	221.1
72.5°	740.9	446.9	165.0	157.8	144.7	185.4	271.4	246.6	218.2	217.7	211.2
75°	289.9	204.7	151.4	149.1	132.7	169.7	264.1	239.8	209.9	201.5	199.1
77.5°	169.7	146.0	134.3	136.4	118.4	154.0	253.4	228.2	198.4	188.5	185.9
80°	123.6	109.3	114.5	117.8	101.1	138.5	239.1	213.8	185.6	190.6	186.9
82.5°	79.2	70.4	92.8	96.2	84.2	122.5	223.4	198.6	167.6	152.2	148.6
85°	40.4	44.6	69.1	73.3	64.9	100.6	204.4	178.6	147.3	126.7	128.8
87.5°	22.7	30.5	44.1	49.3	45.9	77.4	165.8	147.3	120.2	97.8	86.1
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)