

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: P302827

Luminaire Tested: **GLNA-AF-01-LED-E1-T4W-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302827
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-7060-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4982.8 lumens
Efficiency: N/A
Efficacy: 113.2 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): 44
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

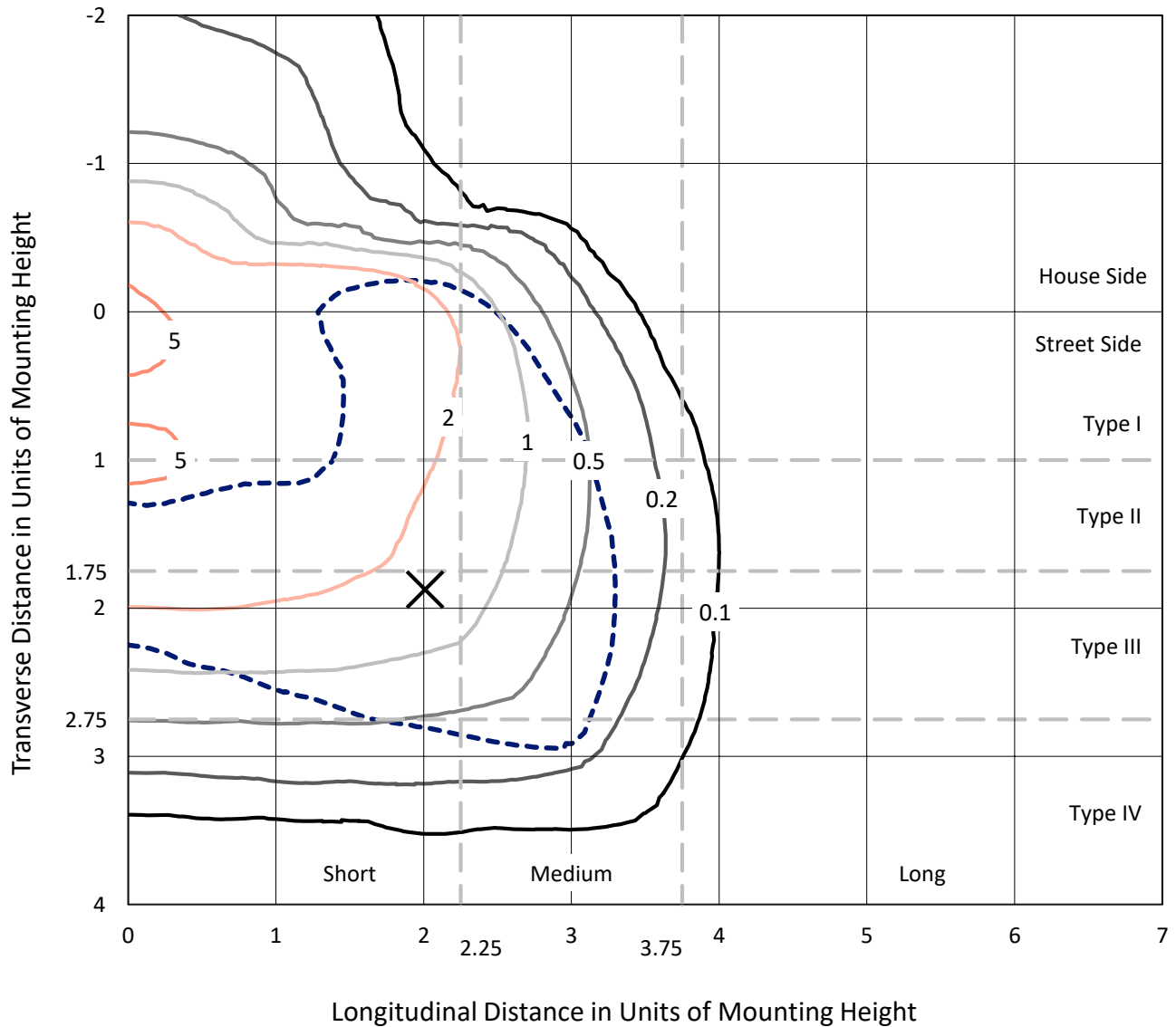


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Iso-Footcandle Lines of Horizontal Illumination

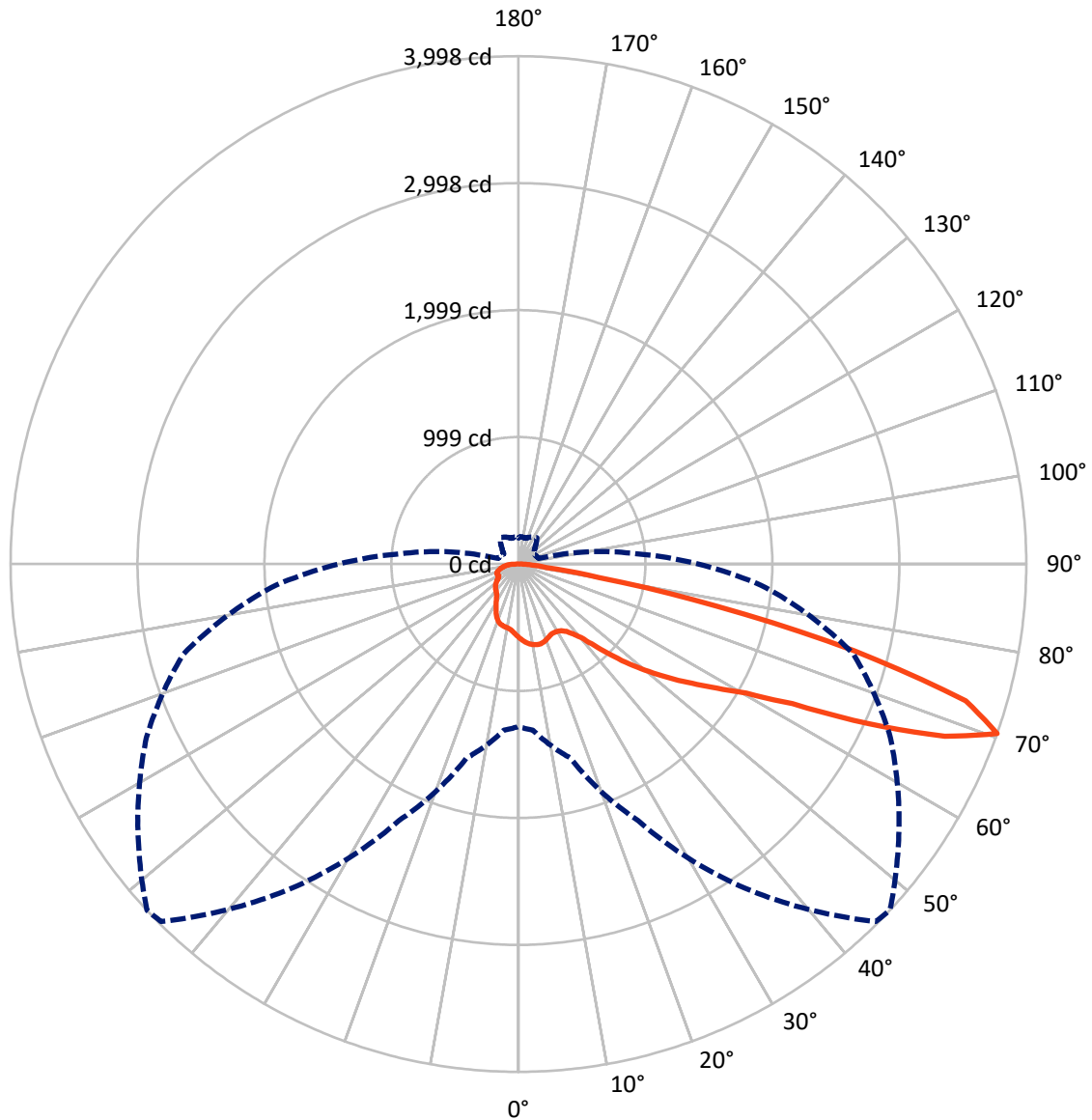
× Max cd
- - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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	1039.5	0.0	1039.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3943.3	0.0	3943.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	4982.8	0.0	4982.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.1
10°-20°	162.5	3.3
20°-30°	240.0	4.8
30°-40°	348.8	7.0
40°-50°	627.8	12.6
50°-60°	1087.6	21.8
60°-70°	1552.3	31.2
70°-80°	796.9	16.0
80°-90°	111.6	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°	4982.8	100.0
0°-180°	4982.8	100.0

Coefficient of Utilization



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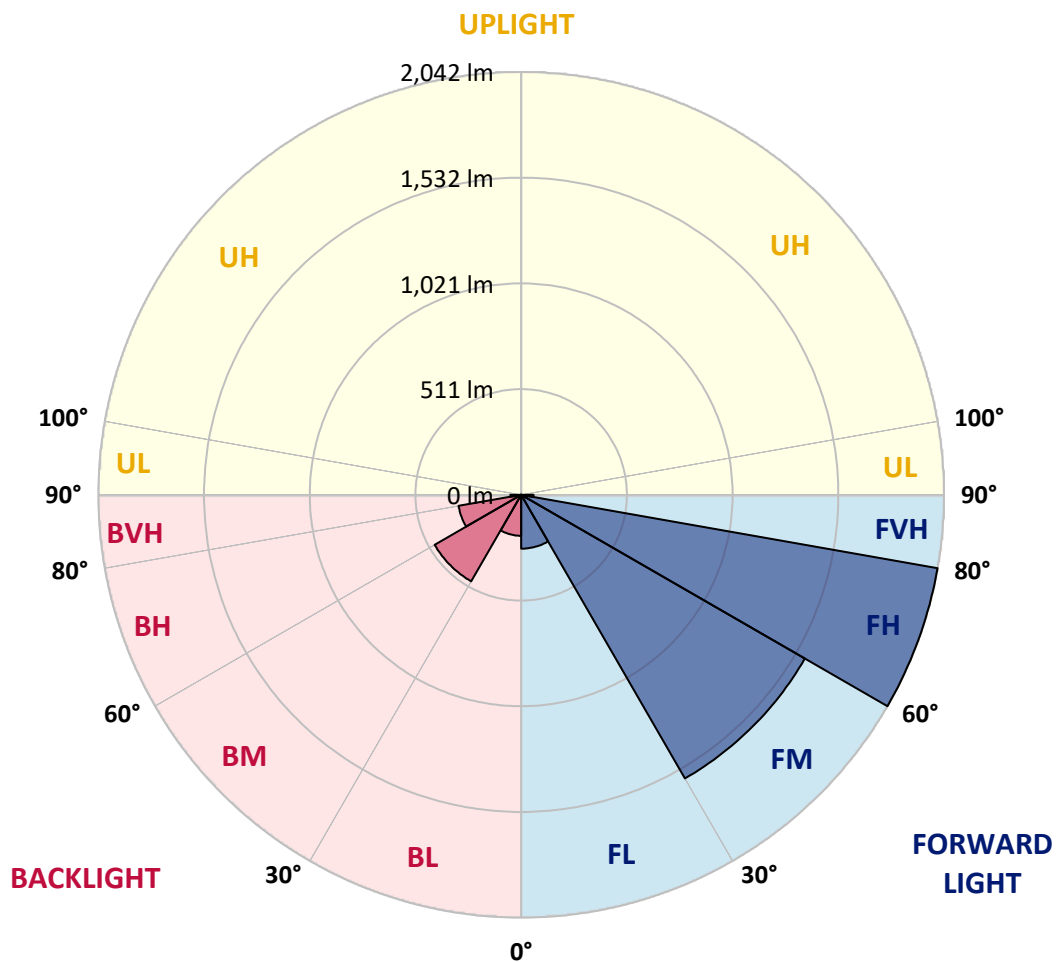
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.0	5.2			
FM	(30°-60°)	1581.7	31.7			
FH	(60°-80°)	2042.1	41.0			G2/5000
FVH	(80°-90°)	59.5	1.2			G1/100
BL	(0°-30°)	197.9	4.0	B1/500		
BM	(30°-60°)	482.5	9.7	B1/1000		
BH	(60°-80°)	307.0	6.2	B1/500		G1/500
BVH	(80°-90°)	52.0	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°	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2
2.5°	612.1	610.9	610.4	609.5	608.3	602.1	600.9	596.6	590.6	584.2	577.7
5°	652.4	652.1	649.4	644.6	636.8	623.5	620.3	609.7	595.4	581.5	567.8
7.5°	687.7	685.6	680.5	670.7	657.2	639.0	634.7	619.9	600.2	581.3	562.6
10°	713.7	712.4	701.3	688.0	670.3	650.1	645.1	628.6	607.0	583.0	559.7
12.5°	728.5	726.1	713.2	697.2	676.1	656.5	651.3	634.7	610.4	583.0	555.6
15°	727.5	725.8	712.9	695.5	674.2	657.0	652.4	635.6	609.7	580.6	550.3
17.5°	708.1	708.8	698.0	680.7	663.3	650.1	646.0	630.6	604.8	575.7	544.0
20°	674.2	677.6	670.3	655.0	645.3	636.4	633.7	620.6	597.3	568.7	537.2
22.5°	640.2	643.4	640.5	627.6	626.1	620.8	619.4	610.0	590.8	564.4	533.1
25°	615.3	618.2	617.7	606.5	610.9	610.7	609.5	604.8	589.3	564.4	533.8
27.5°	608.5	609.5	608.5	598.3	604.3	609.2	608.3	607.5	593.7	571.4	543.0
30°	631.8	630.3	622.8	602.1	607.8	614.5	613.6	614.1	606.7	589.8	563.7
32.5°	724.6	718.0	694.2	636.4	621.5	625.2	625.7	633.7	634.9	618.2	595.6
35°	863.5	856.2	825.4	728.0	664.5	651.9	651.9	664.0	671.2	658.9	645.3
37.5°	1010.7	1002.6	986.2	855.0	754.6	698.2	697.0	705.4	715.8	718.8	722.2
40°	1177.9	1169.4	1174.0	997.5	880.5	778.4	761.2	755.1	783.2	801.9	829.1
42.5°	1361.0	1357.0	1358.7	1156.3	1023.7	898.4	874.0	842.6	876.6	909.8	966.8
45°	1530.4	1533.7	1532.1	1326.3	1183.3	1044.8	1018.9	958.2	991.5	1048.4	1141.3
47.5°	1678.7	1664.7	1686.5	1511.9	1361.9	1208.7	1176.7	1095.5	1129.2	1199.5	1356.5
50°	1858.8	1856.9	1825.0	1759.7	1577.9	1373.3	1331.3	1237.3	1289.6	1387.4	1627.9
52.5°	2048.2	2013.0	1983.7	1952.4	1807.0	1542.0	1490.6	1378.6	1478.3	1601.1	1958.5
55°	2086.9	2071.2	2107.5	2160.2	2027.8	1717.3	1657.4	1555.8	1690.7	1845.6	2339.8
57.5°	2169.9	2169.6	2244.8	2338.6	2255.2	1903.2	1842.8	1769.9	1929.4	2125.5	2744.6
60°	2225.9	2241.6	2381.3	2563.3	2478.5	2118.0	2062.5	2016.9	2200.9	2438.4	3121.8
62.5°	2255.2	2276.5	2467.1	2654.5	2794.1	2475.6	2420.1	2354.4	2560.2	2781.7	3342.4
65°	2133.3	2175.2	2453.7	2733.3	3070.5	3055.2	3030.2	2914.8	3009.4	3053.0	3262.7
67.5°	1795.8	1838.7	2163.1	2659.8	3267.8	3614.2	3619.5	3422.5	3285.7	3076.3	2743.2
70°	1279.5	1313.1	1581.6	2230.0	3117.5	3979.5	3997.7	3656.3	3230.7	2728.1	1916.6
72.5°	607.5	628.1	882.2	1451.4	2473.9	3646.2	3681.4	3357.7	2747.0	2019.8	1045.5
75°	223.3	229.5	298.1	617.4	1434.9	2688.9	2730.4	2407.0	1821.0	1005.6	398.3
77.5°	133.8	137.9	167.3	260.6	564.4	1537.0	1598.2	1309.0	795.9	374.3	195.9
80°	93.6	96.5	120.0	162.1	266.7	585.7	640.2	534.3	317.1	236.9	142.5
82.5°	63.3	64.7	84.4	109.6	177.2	209.2	225.7	237.6	213.8	176.2	90.4
85°	41.5	42.9	57.2	72.2	112.7	108.1	110.5	139.8	156.1	119.7	50.2
87.5°	23.8	24.7	34.5	38.6	55.3	45.8	46.3	73.7	99.9	80.8	30.5
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°	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2
2.5°	576.0	572.8	565.8	561.4	557.3	556.3	554.6	554.4	554.2	554.2	553.4
5°	563.1	557.8	546.9	540.8	535.7	535.2	535.0	536.2	536.7	537.2	536.4
7.5°	554.9	547.6	534.0	525.3	519.3	517.8	520.3	525.8	529.4	530.9	530.2
10°	549.8	540.8	525.1	515.6	510.5	509.8	512.9	519.5	527.0	529.9	529.7
12.5°	544.0	533.8	517.0	507.1	504.2	505.7	509.8	515.8	523.6	528.2	528.5
15°	538.1	526.3	509.1	500.4	499.2	501.1	505.0	509.6	515.6	520.3	520.7
17.5°	531.1	518.7	501.6	492.6	491.6	492.6	492.8	495.2	499.2	503.5	504.7
20°	523.6	511.0	493.1	484.1	479.8	475.9	471.5	472.0	473.2	477.6	478.6
22.5°	518.3	505.7	486.5	474.1	462.5	450.9	442.2	441.0	441.4	445.1	446.3
25°	518.7	505.5	484.8	463.5	438.1	419.4	407.7	405.8	405.5	408.2	410.0
27.5°	528.2	514.9	491.1	452.6	411.4	383.7	371.4	369.9	368.0	368.7	370.7
30°	549.3	536.9	506.4	441.4	382.5	348.9	336.0	334.5	331.9	330.7	332.1
32.5°	583.7	573.6	528.7	430.7	353.7	319.0	305.9	302.8	301.1	299.7	300.9
35°	641.0	636.6	558.5	419.1	328.2	296.0	284.1	279.3	276.9	279.5	281.5
37.5°	730.6	733.1	597.6	400.9	308.6	280.7	270.8	265.2	261.6	263.8	265.9
40°	857.7	859.4	640.7	375.3	291.6	271.7	261.1	256.0	250.9	247.0	246.8
42.5°	1024.4	1007.3	683.1	347.4	272.0	266.2	254.3	248.0	240.2	229.5	227.4
45°	1222.2	1161.9	715.3	315.4	249.9	259.4	246.8	238.1	225.9	214.3	213.1
47.5°	1450.2	1328.0	731.1	282.2	229.3	249.4	237.6	223.7	208.4	202.6	201.9
50°	1728.4	1525.0	738.6	249.9	211.4	236.4	224.2	208.0	195.2	194.0	193.2
52.5°	2045.3	1762.2	741.1	223.5	196.6	219.4	213.4	197.6	187.3	188.4	188.4
55°	2376.9	2007.0	708.1	204.3	183.0	201.9	206.0	193.5	184.9	188.9	190.3
57.5°	2681.4	2224.0	604.3	189.6	170.2	188.6	203.4	197.3	191.5	207.2	208.2
60°	2915.1	2352.1	451.3	176.2	160.7	184.0	210.5	212.1	213.6	251.1	256.3
62.5°	2964.0	2309.5	310.3	165.9	156.4	187.9	223.3	223.5	221.8	248.0	251.1
65°	2739.3	2039.7	225.7	160.0	152.7	194.9	234.2	229.1	217.9	237.8	232.0
67.5°	2175.4	1536.7	187.9	155.6	147.4	194.4	245.8	234.2	215.8	233.0	223.5
70°	1412.1	929.2	167.3	152.0	141.1	185.2	252.6	233.7	209.4	216.7	205.5
72.5°	688.9	415.5	153.5	146.7	134.5	172.4	252.3	229.3	202.9	202.4	196.4
75°	269.6	190.3	140.8	138.6	123.4	157.8	245.6	223.0	195.2	187.3	185.2
77.5°	157.8	135.7	124.9	126.8	110.1	143.2	235.7	212.1	184.5	175.3	172.9
80°	114.9	101.6	106.4	109.6	94.0	128.7	222.3	198.8	172.6	177.2	173.8
82.5°	73.7	65.5	86.3	89.4	78.3	113.9	207.7	184.7	155.9	141.5	138.2
85°	37.6	41.5	64.2	68.1	60.4	93.6	190.1	166.1	136.9	117.8	119.7
87.5°	21.1	28.3	41.0	45.8	42.7	72.0	154.2	136.9	111.7	90.9	80.0
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)