

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: P302766

Luminaire Tested: **GLNA-AF-01-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302766
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-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6167.8 lumens
Efficiency: N/A
Efficacy: 104.5 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

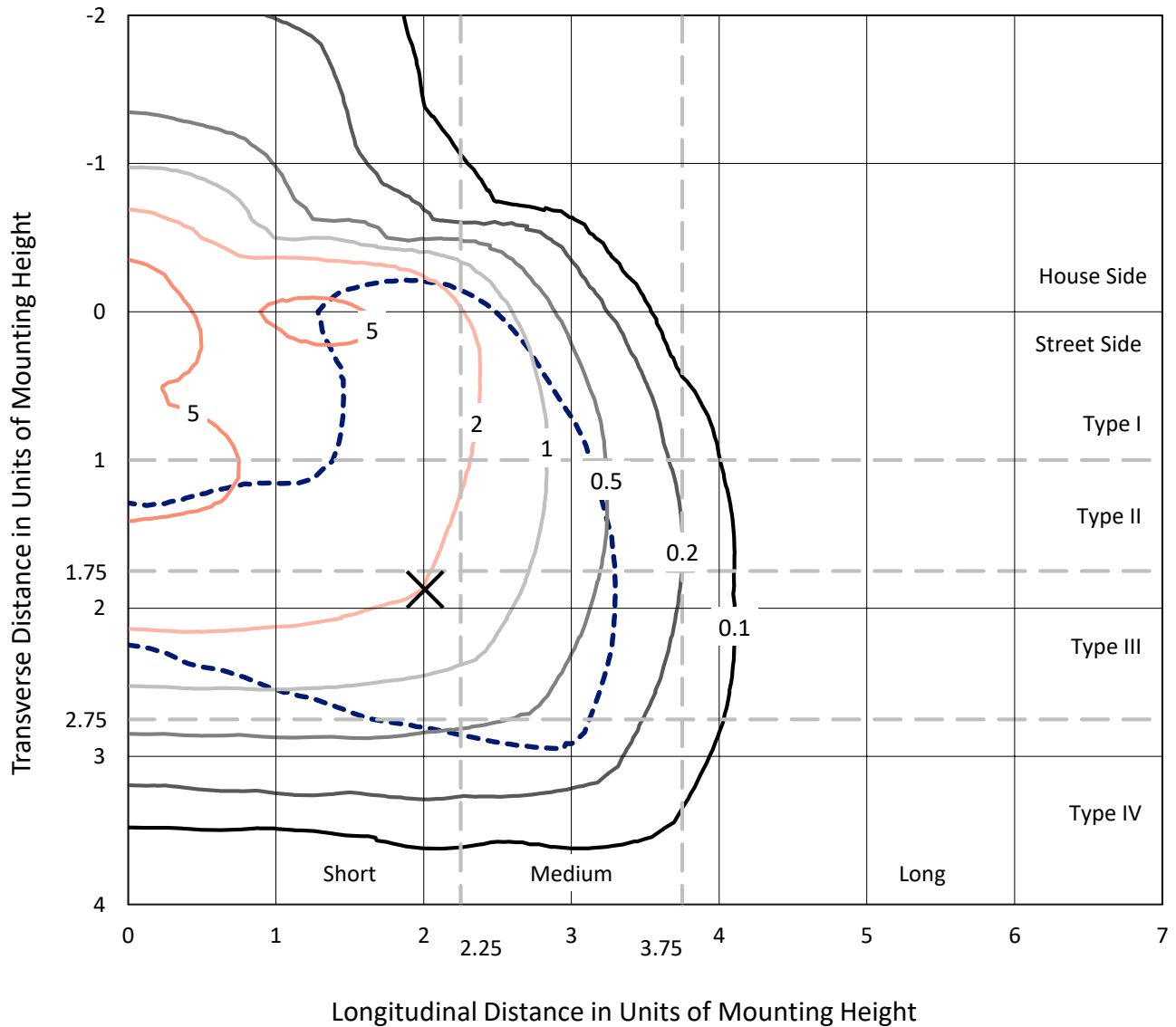
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

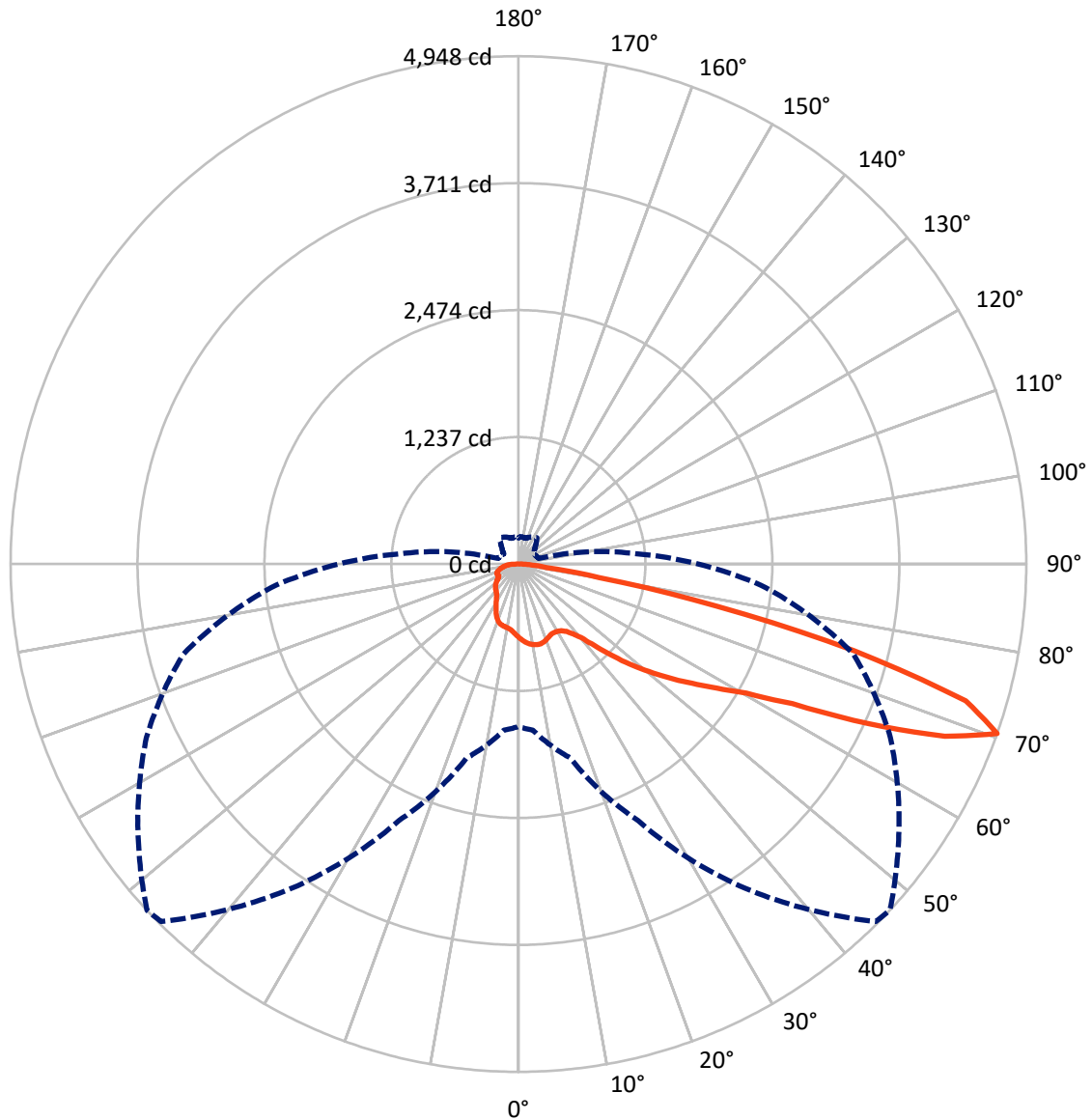
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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	1286.7	0.0	1286.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4881.1	0.0	4881.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	6167.8	0.0	6167.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.1
10°-20°	201.2	3.3
20°-30°	297.1	4.8
30°-40°	431.8	7.0
40°-50°	777.1	12.6
50°-60°	1346.2	21.8
60°-70°	1921.4	31.2
70°-80°	986.4	16.0
80°-90°	138.1	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°	6167.8	100.0
0°-180°	6167.8	100.0

Coefficient of Utilization



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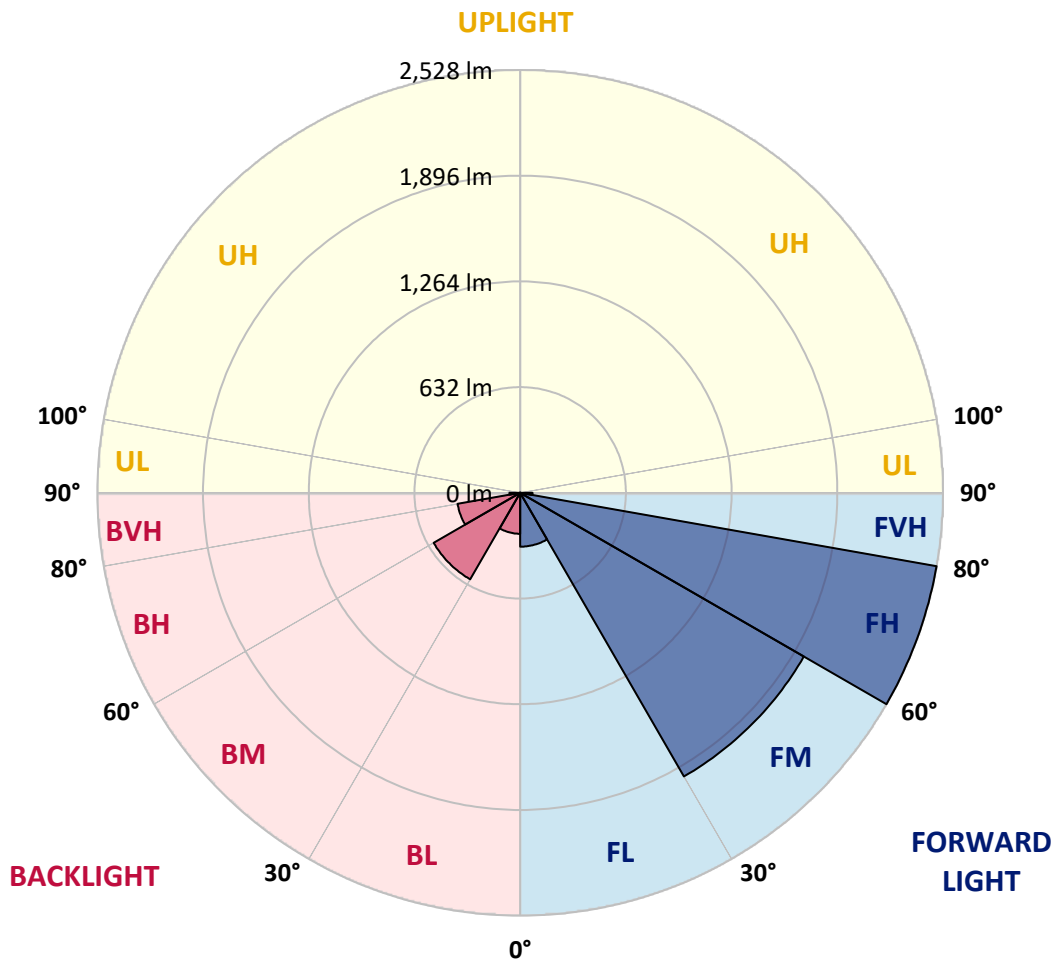
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.8	5.2			
FM	(30°-60°)	1957.8	31.7			
FH	(60°-80°)	2527.7	41.0			G2/5000
FVH	(80°-90°)	73.7	1.2			G1/100
BL	(0°-30°)	245.0	4.0	B1/500		
BM	(30°-60°)	597.3	9.7	B1/1000		
BH	(60°-80°)	380.1	6.2	B1/500		G1/500
BVH	(80°-90°)	64.4	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°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
2.5°	757.7	756.2	755.6	754.4	752.9	745.3	743.8	738.5	731.0	723.1	715.0
5°	807.5	807.2	803.8	797.9	788.3	771.7	767.9	754.7	737.0	719.8	702.8
7.5°	851.3	848.6	842.3	830.2	813.5	791.0	785.6	767.3	742.9	719.5	696.4
10°	883.4	881.9	868.1	851.6	829.6	804.7	798.5	778.0	751.3	721.6	692.8
12.5°	901.7	898.7	882.8	863.0	836.9	812.6	806.2	785.6	755.6	721.6	687.7
15°	900.5	898.4	882.5	860.8	834.5	813.2	807.5	786.8	754.7	718.6	681.2
17.5°	876.5	877.4	863.9	842.6	821.0	804.7	799.7	780.5	748.6	712.7	673.4
20°	834.5	838.7	829.6	810.8	798.8	787.7	784.4	768.2	739.4	704.0	664.9
22.5°	792.5	796.4	792.8	776.8	775.0	768.5	766.7	755.0	731.3	698.6	659.8
25°	761.6	765.2	764.6	750.7	756.2	755.9	754.4	748.6	729.5	698.6	660.7
27.5°	753.2	754.4	753.2	740.6	748.0	754.1	752.9	751.9	734.9	707.3	672.2
30°	782.0	780.2	770.9	745.3	752.3	760.7	759.5	760.1	751.0	730.1	697.7
32.5°	896.9	888.7	859.3	787.7	769.4	773.8	774.4	784.4	785.9	765.2	737.3
35°	1068.8	1059.9	1021.7	901.1	822.5	806.9	806.9	821.9	830.8	815.6	798.8
37.5°	1251.0	1241.0	1220.7	1058.4	934.1	864.2	862.7	873.2	886.1	889.7	893.9
40°	1458.0	1447.5	1453.2	1234.8	1089.9	963.5	942.2	934.7	969.5	992.6	1026.3
42.5°	1684.6	1679.7	1681.8	1431.3	1267.1	1112.1	1081.8	1043.0	1085.1	1126.1	1196.7
45°	1894.3	1898.5	1896.4	1641.7	1464.7	1293.3	1261.2	1186.1	1227.3	1297.7	1412.7
47.5°	2078.0	2060.5	2087.5	1871.5	1685.8	1496.2	1456.5	1356.0	1397.7	1484.7	1679.1
50°	2300.9	2298.5	2258.9	2178.2	1953.1	1699.9	1647.9	1531.5	1596.3	1717.3	2015.0
52.5°	2535.3	2491.7	2455.5	2416.7	2236.7	1908.7	1845.1	1706.4	1829.8	1981.9	2424.3
55°	2583.2	2563.8	2608.7	2673.9	2510.1	2125.7	2051.5	1925.8	2092.7	2284.4	2896.2
57.5°	2685.9	2685.6	2778.6	2894.8	2791.5	2355.8	2281.1	2190.8	2388.2	2631.0	3397.3
60°	2755.2	2774.7	2947.6	3172.9	3067.9	2621.7	2552.9	2496.5	2724.3	3018.3	3864.2
62.5°	2791.5	2817.9	3053.8	3285.7	3458.5	3064.3	2995.6	2914.3	3169.0	3443.3	4137.3
65°	2640.6	2692.4	3037.3	3383.3	3800.6	3781.7	3750.8	3608.0	3725.0	3779.0	4038.6
67.5°	2222.9	2276.0	2677.5	3292.3	4044.9	4473.7	4480.3	4236.3	4067.1	3807.8	3395.5
70°	1583.8	1625.4	1957.7	2760.3	3858.8	4925.9	4948.4	4525.8	3999.0	3376.9	2372.3
72.5°	751.9	777.4	1091.9	1796.5	3062.2	4513.3	4556.8	4156.2	3400.3	2500.1	1294.2
75°	276.4	284.1	369.0	764.3	1776.1	3328.4	3379.7	2979.4	2254.1	1244.7	493.0
77.5°	165.6	170.7	207.1	322.6	698.6	1902.5	1978.3	1620.3	985.1	463.3	242.5
80°	115.8	119.4	148.5	200.7	330.1	725.0	792.5	661.3	392.5	293.2	176.4
82.5°	78.3	80.1	104.4	135.6	219.3	258.9	279.3	294.1	264.7	218.2	111.9
85°	51.3	53.1	70.9	89.4	139.5	133.8	136.8	173.1	193.2	148.2	62.1
87.5°	29.4	30.6	42.7	47.7	68.5	56.7	57.3	91.2	123.7	100.0	37.8
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°	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6	715.6
2.5°	712.9	709.1	700.4	694.9	689.8	688.6	686.5	686.2	685.9	685.9	685.0
5°	697.0	690.4	677.0	669.4	663.1	662.5	662.2	663.7	664.3	664.9	664.0
7.5°	686.8	677.9	661.0	650.3	642.8	640.9	644.0	650.9	655.3	657.1	656.2
10°	680.6	669.4	650.0	638.2	631.9	631.0	634.9	643.1	652.4	655.9	655.6
12.5°	673.4	660.7	640.0	627.7	624.2	625.9	631.0	638.5	648.2	653.9	654.2
15°	666.1	651.5	630.1	619.4	617.9	620.3	625.1	630.7	638.2	644.0	644.6
17.5°	657.4	642.1	620.9	609.7	608.5	609.7	610.0	613.0	617.9	623.3	624.8
20°	648.2	632.5	610.3	599.2	593.9	589.1	583.6	584.2	585.7	591.2	592.4
22.5°	641.5	625.9	602.2	586.9	572.5	558.1	547.3	545.8	546.4	550.9	552.4
25°	642.1	625.6	600.1	573.7	542.2	519.1	504.7	502.3	502.0	505.3	507.5
27.5°	653.9	637.3	607.9	560.2	509.2	475.0	459.7	457.9	455.5	456.4	458.8
30°	680.0	664.6	626.8	546.4	473.5	431.8	415.9	414.1	410.8	409.3	411.1
32.5°	722.5	710.0	654.5	533.2	437.8	394.8	378.7	374.8	372.7	370.9	372.4
35°	793.4	788.0	691.3	518.8	406.3	366.3	351.7	345.7	342.7	346.0	348.4
37.5°	904.4	907.4	739.7	496.3	382.0	347.5	335.1	328.3	323.8	326.5	329.2
40°	1061.7	1063.7	793.1	464.5	361.0	336.3	323.2	316.9	310.5	305.7	305.5
42.5°	1268.0	1246.8	845.6	430.0	336.6	329.5	314.8	306.9	297.4	284.1	281.4
45°	1512.9	1438.3	885.5	390.4	309.3	321.1	305.5	294.7	279.6	265.3	263.8
47.5°	1795.0	1643.8	905.0	349.3	283.8	308.7	294.1	276.9	258.0	250.8	249.9
50°	2139.4	1887.7	914.3	309.3	261.7	292.6	277.5	257.4	241.6	240.1	239.2
52.5°	2531.7	2181.2	917.3	276.6	243.4	271.6	264.1	244.6	231.9	233.2	233.2
55°	2942.2	2484.3	876.5	252.9	226.5	249.9	255.0	239.5	228.9	233.8	235.6
57.5°	3319.0	2752.8	748.0	234.7	210.7	233.5	251.7	244.3	237.1	256.5	257.7
60°	3608.3	2911.5	558.7	218.2	198.9	227.7	260.5	262.6	264.4	310.8	317.2
62.5°	3668.9	2858.8	384.1	205.3	193.5	232.6	276.4	276.6	274.6	306.9	310.8
65°	3390.7	2524.7	279.3	198.0	189.1	241.3	289.9	283.5	269.8	294.4	287.1
67.5°	2692.7	1902.2	232.6	192.6	182.5	240.7	304.3	289.9	267.1	288.4	276.6
70°	1747.9	1150.1	207.1	188.2	174.6	229.2	312.6	289.3	259.2	268.3	254.4
72.5°	852.8	514.3	189.9	181.6	166.5	213.4	312.3	283.8	251.1	250.5	243.1
75°	333.7	235.6	174.3	171.6	152.8	195.3	304.0	276.1	241.6	231.9	229.2
77.5°	195.3	168.0	154.6	157.0	136.2	177.3	291.7	262.6	228.3	217.0	214.0
80°	142.2	125.8	131.7	135.6	116.4	159.4	275.2	246.1	213.7	219.3	215.2
82.5°	91.2	81.0	106.8	110.7	97.0	141.0	257.1	228.6	192.9	175.2	171.0
85°	46.5	51.3	79.5	84.3	74.7	115.8	235.3	205.6	169.5	145.8	148.2
87.5°	26.1	35.1	50.7	56.7	52.8	89.1	190.8	169.5	138.3	112.5	99.1
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)