

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: P299222

Luminaire Tested: **GLNA-AF-02-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-T3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735.1 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

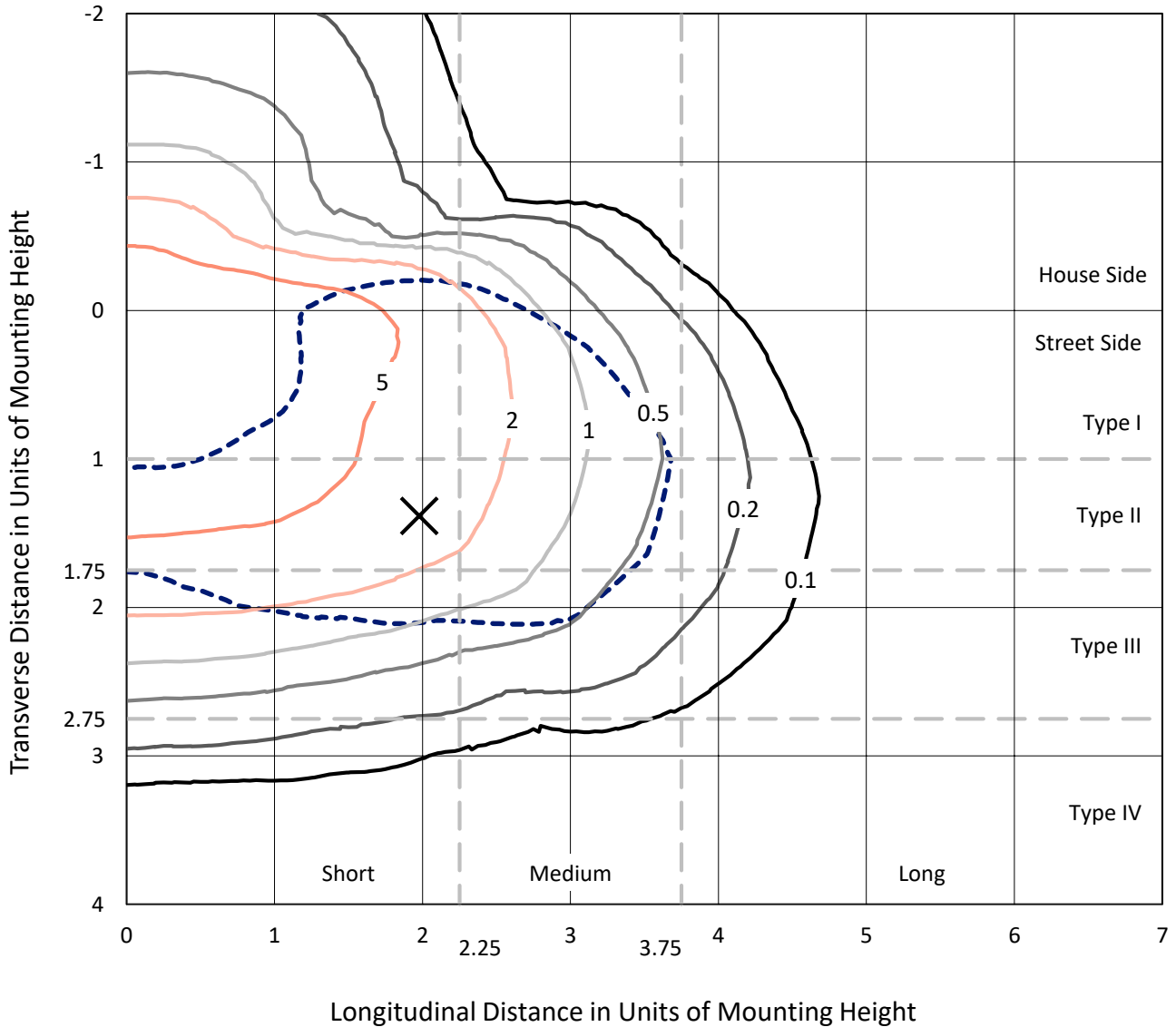


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

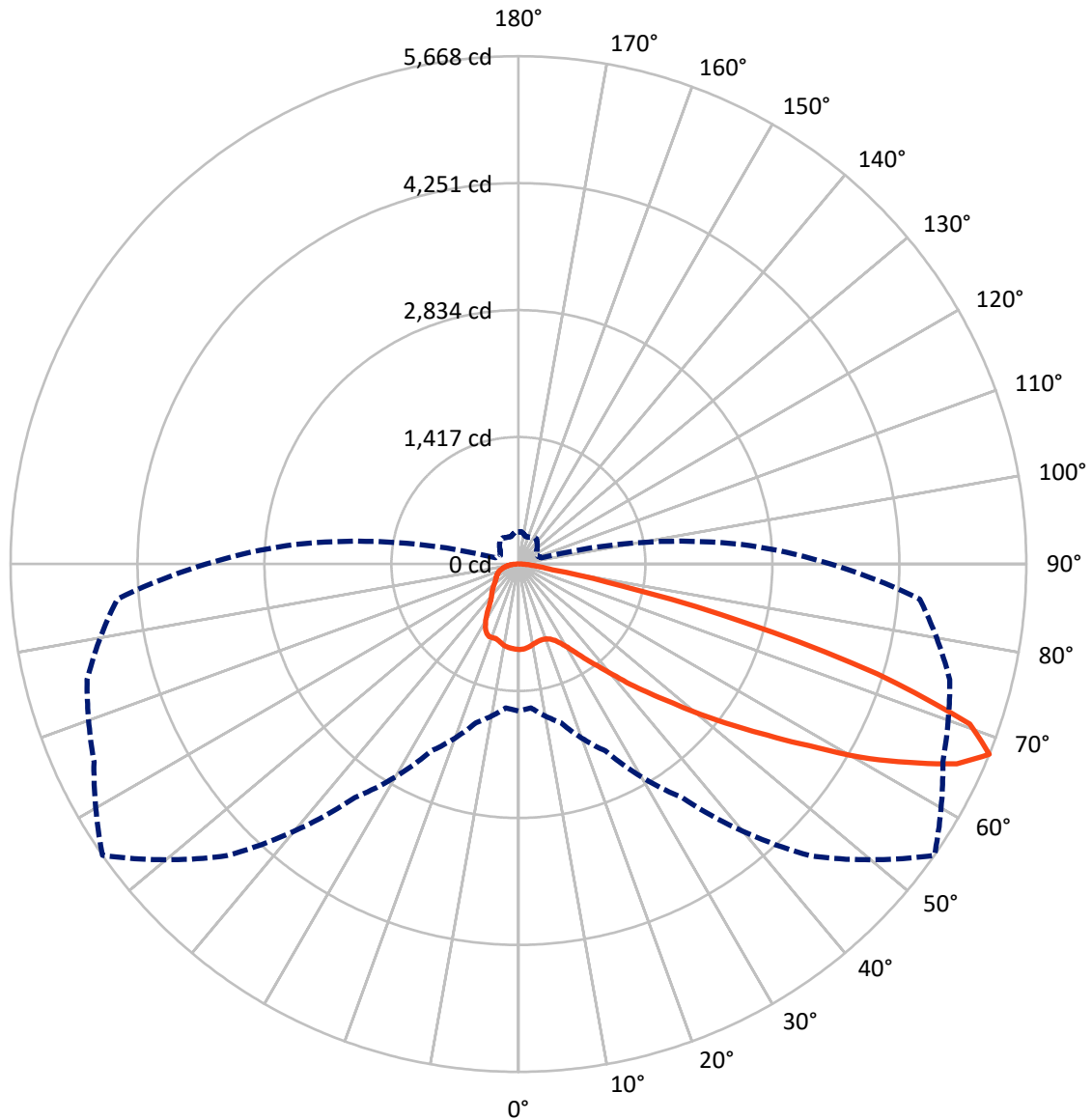


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.9	0.0	1670.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6064.1	0.0	6064.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	7735.1	0.0	7735.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.2
10°-20°	252.1	3.3
20°-30°	422.4	5.5
30°-40°	694.6	9.0
40°-50°	1169.2	15.1
50°-60°	1840.2	23.8
60°-70°	2196.0	28.4
70°-80°	943.0	12.2
80°-90°	128.6	1.7
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°	7735.1	100.0
0°-180°	7735.1	100.0



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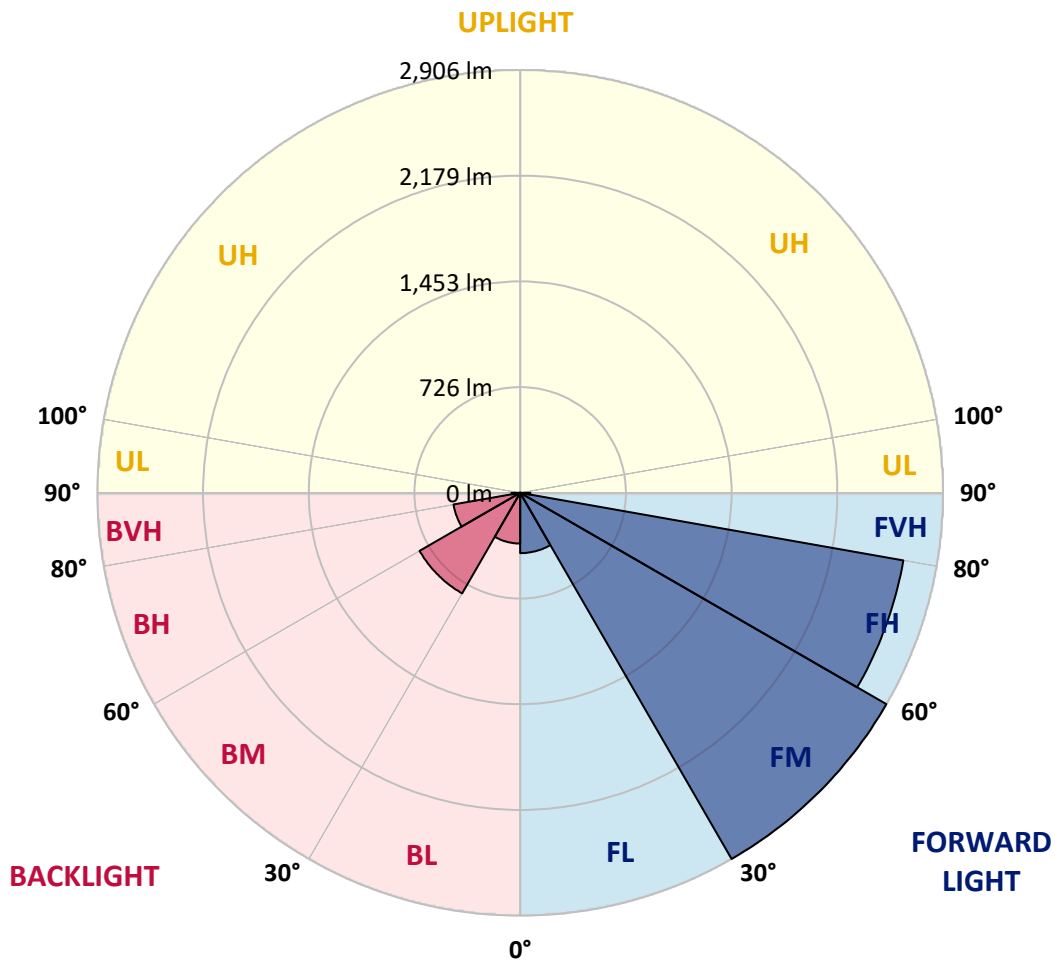
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.6	5.4			
FM	(30°-60°)	2905.9	37.6			
FH	(60°-80°)	2674.1	34.6			G2/5000
FVH	(80°-90°)	69.6	0.9			G1/100
BL	(0°-30°)	348.9	4.5	B1/500		
BM	(30°-60°)	798.0	10.3	B1/1000		
BH	(60°-80°)	465.0	6.0	B1/500		G1/500
BVH	(80°-90°)	59.0	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8
2.5°	945.6	946.0	946.7	949.7	952.3	951.6	952.0	950.5	950.1	947.8	950.1
5°	933.6	934.8	935.1	940.0	943.0	943.7	942.6	940.7	938.5	936.3	937.4
7.5°	906.4	909.4	909.7	916.5	921.3	927.7	928.0	928.4	927.3	925.8	928.0
10°	889.2	889.9	889.6	894.4	898.2	905.2	909.4	916.5	919.4	920.2	921.7
12.5°	888.1	887.3	886.2	886.2	885.1	888.1	895.5	905.6	912.7	915.0	916.8
15°	900.0	899.6	895.9	890.3	883.2	881.0	887.3	898.5	907.9	912.7	914.6
17.5°	926.9	924.7	918.7	906.0	890.7	884.7	885.4	894.8	905.6	912.0	913.8
20°	976.2	976.2	963.5	939.6	912.3	898.2	891.4	897.0	907.5	916.1	918.7
22.5°	1061.4	1062.2	1040.9	1001.6	955.7	925.4	908.6	907.5	919.8	929.5	932.5
25°	1182.1	1179.1	1149.2	1093.2	1023.3	973.2	944.1	937.4	947.8	958.7	962.4
27.5°	1322.6	1311.7	1276.2	1208.6	1118.2	1045.0	1000.1	989.3	999.4	1011.7	1015.5
30°	1461.5	1450.3	1408.1	1334.1	1233.6	1141.0	1076.7	1059.2	1073.4	1090.9	1093.2
32.5°	1600.5	1600.5	1553.5	1467.2	1357.7	1255.7	1178.7	1157.8	1181.3	1202.6	1207.5
35°	1766.8	1767.5	1722.0	1618.1	1500.4	1392.4	1307.6	1292.3	1327.8	1342.7	1354.3
37.5°	1971.1	1975.3	1916.6	1791.1	1662.2	1548.6	1447.7	1426.8	1462.3	1503.0	1540.4
40°	2192.0	2197.2	2132.5	1977.9	1849.0	1730.2	1621.1	1583.3	1642.4	1720.1	1768.3
42.5°	2402.7	2429.6	2367.2	2208.0	2069.4	1946.5	1835.9	1781.0	1855.0	1972.3	2014.1
45°	2707.2	2726.6	2617.9	2473.7	2343.3	2205.8	2059.3	2001.4	2104.9	2252.8	2261.4
47.5°	2910.0	2895.5	2840.2	2750.5	2667.9	2539.4	2319.0	2255.5	2393.0	2567.1	2518.9
50°	3018.0	3022.5	3015.0	3020.2	3023.2	2942.5	2637.3	2550.2	2714.3	2924.6	2813.6
52.5°	3118.9	3089.0	3113.6	3236.2	3384.1	3354.2	2983.6	2892.8	3058.7	3321.4	3125.2
55°	3116.6	3071.0	3151.4	3367.7	3688.6	3723.0	3372.5	3267.9	3423.0	3746.9	3455.5
57.5°	3006.4	3008.7	3132.3	3415.5	3900.8	4069.7	3823.9	3667.0	3809.3	4178.0	3757.0
60°	2854.7	2875.3	3053.5	3407.7	4070.8	4354.0	4377.6	4097.0	4187.8	4570.0	4006.6
62.5°	2610.0	2631.7	2877.5	3326.2	4045.0	4627.9	4878.2	4584.9	4583.4	4807.6	4079.8
65°	2224.1	2217.7	2475.9	3021.7	3828.7	4830.4	5375.5	5006.7	4881.5	4811.3	3932.6
67.5°	1640.1	1611.7	1833.3	2301.4	3182.4	4603.6	5668.0	5226.4	4983.2	4494.9	3482.8
70°	851.1	822.7	1002.0	1343.9	2092.9	3593.0	5344.1	5112.8	4758.6	3767.8	2728.5
72.5°	363.9	359.0	431.9	589.6	1012.5	2072.4	4190.4	4425.4	4083.1	2807.3	1875.9
75°	244.7	243.2	270.5	321.3	455.4	841.0	2622.3	3141.3	2987.4	1740.6	1055.1
77.5°	192.0	190.2	206.2	230.9	295.1	331.8	1163.8	1686.5	1560.9	757.7	461.8
80°	150.2	148.7	158.8	172.2	212.2	209.2	382.9	671.0	519.3	290.3	224.5
82.5°	118.4	118.4	126.7	127.0	150.6	142.7	199.9	295.5	259.3	169.2	137.5
85°	108.3	108.3	116.9	94.9	98.3	90.0	124.0	175.2	164.4	69.5	59.8
87.5°	54.5	53.1	98.3	84.1	53.4	47.8	60.5	84.8	91.2	38.5	29.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8	953.8
2.5°	949.3	949.0	949.7	950.1	953.1	957.2	959.0	961.7	963.2	962.4
5°	938.1	938.9	941.9	944.1	949.3	956.1	959.8	962.8	965.4	964.3
7.5°	928.8	930.7	935.1	937.0	940.0	941.9	941.5	942.6	944.9	942.2
10°	923.6	925.8	929.2	926.5	919.4	909.4	900.0	895.2	896.7	894.8
12.5°	918.3	921.3	918.7	906.4	886.6	873.5	866.4	867.1	870.5	871.3
15°	915.3	916.5	905.2	882.1	861.9	860.0	863.8	863.0	863.4	863.4
17.5°	915.3	912.3	891.4	868.3	859.7	856.3	844.7	830.2	823.8	821.6
20°	920.2	912.3	886.9	871.6	852.9	824.2	793.5	766.6	754.7	751.3
22.5°	934.8	921.3	899.6	873.1	820.1	771.9	723.3	691.2	669.5	665.8
25°	964.3	949.3	924.7	853.3	767.8	699.0	643.7	607.9	586.2	583.2
27.5°	1015.8	1006.1	938.1	809.6	698.3	624.7	573.5	545.8	529.8	528.7
30°	1093.5	1088.7	931.4	745.0	612.7	552.6	527.9	511.8	499.9	499.5
32.5°	1217.6	1178.4	909.4	666.1	534.6	501.4	491.3	481.6	472.2	472.2
35°	1377.1	1250.8	867.5	581.7	487.2	473.0	460.3	445.0	432.6	431.9
37.5°	1564.7	1295.7	792.4	513.7	464.8	453.9	435.3	412.5	390.8	387.1
40°	1754.1	1309.1	686.7	471.9	450.6	434.9	412.1	385.2	364.3	363.1
42.5°	1927.8	1283.3	574.6	443.1	436.4	415.5	391.5	367.6	351.2	350.8
45°	2073.5	1216.5	480.5	415.8	421.4	397.9	376.6	357.2	344.5	341.9
47.5°	2210.6	1121.9	414.3	387.1	406.5	388.2	370.2	351.9	339.6	337.7
50°	2369.8	1019.9	368.0	359.0	393.4	384.8	375.5	356.4	335.9	333.6
52.5°	2562.6	931.8	331.8	334.4	383.3	389.3	388.9	369.1	333.3	330.3
55°	2777.8	833.9	304.5	314.2	379.2	397.5	392.3	381.1	335.5	331.0
57.5°	2989.6	719.6	285.4	298.9	373.2	396.8	376.2	360.2	340.7	334.4
60°	3148.4	566.0	270.9	285.4	360.2	384.4	358.7	337.4	339.6	334.8
62.5°	3158.8	437.5	253.3	273.9	340.4	372.1	347.1	327.3	344.5	340.0
65°	2973.2	330.6	236.5	260.0	319.1	364.3	335.9	321.7	354.6	349.7
67.5°	2503.2	266.0	222.3	245.8	297.8	347.8	325.8	316.4	363.5	354.9
70°	1807.1	226.8	208.5	228.6	278.7	329.1	316.8	307.1	339.2	325.8
72.5°	1112.6	196.5	192.8	205.9	264.1	309.7	303.4	289.5	305.6	294.8
75°	555.6	170.4	175.2	183.4	243.6	287.7	281.0	267.1	269.4	267.1
77.5°	266.0	145.7	154.7	161.0	217.1	262.6	255.5	241.3	238.7	239.1
80°	168.5	121.8	130.4	134.9	193.9	233.5	226.4	212.2	242.1	224.5
82.5°	105.4	99.0	101.2	109.5	168.9	203.2	193.9	181.2	218.2	172.6
85°	58.3	69.1	72.1	79.2	130.0	170.0	160.7	144.6	129.6	127.4
87.5°	34.7	41.1	42.2	47.4	87.4	122.9	108.7	103.1	85.6	85.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)