

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: P299402

Luminaire Tested: **GLNA-AF-02-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9783 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 85
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

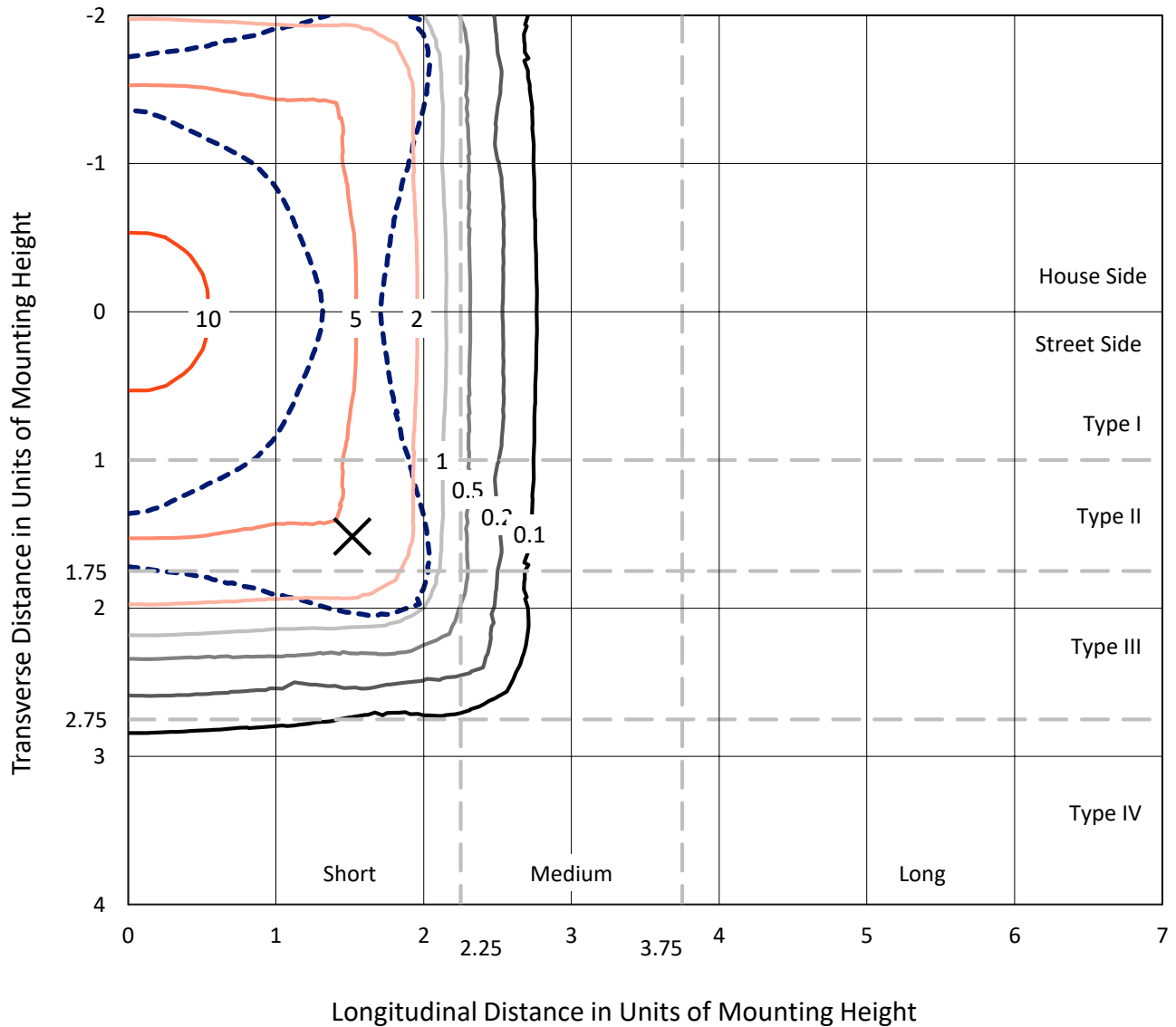


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Iso-Footcandle Lines of Horizontal Illumination

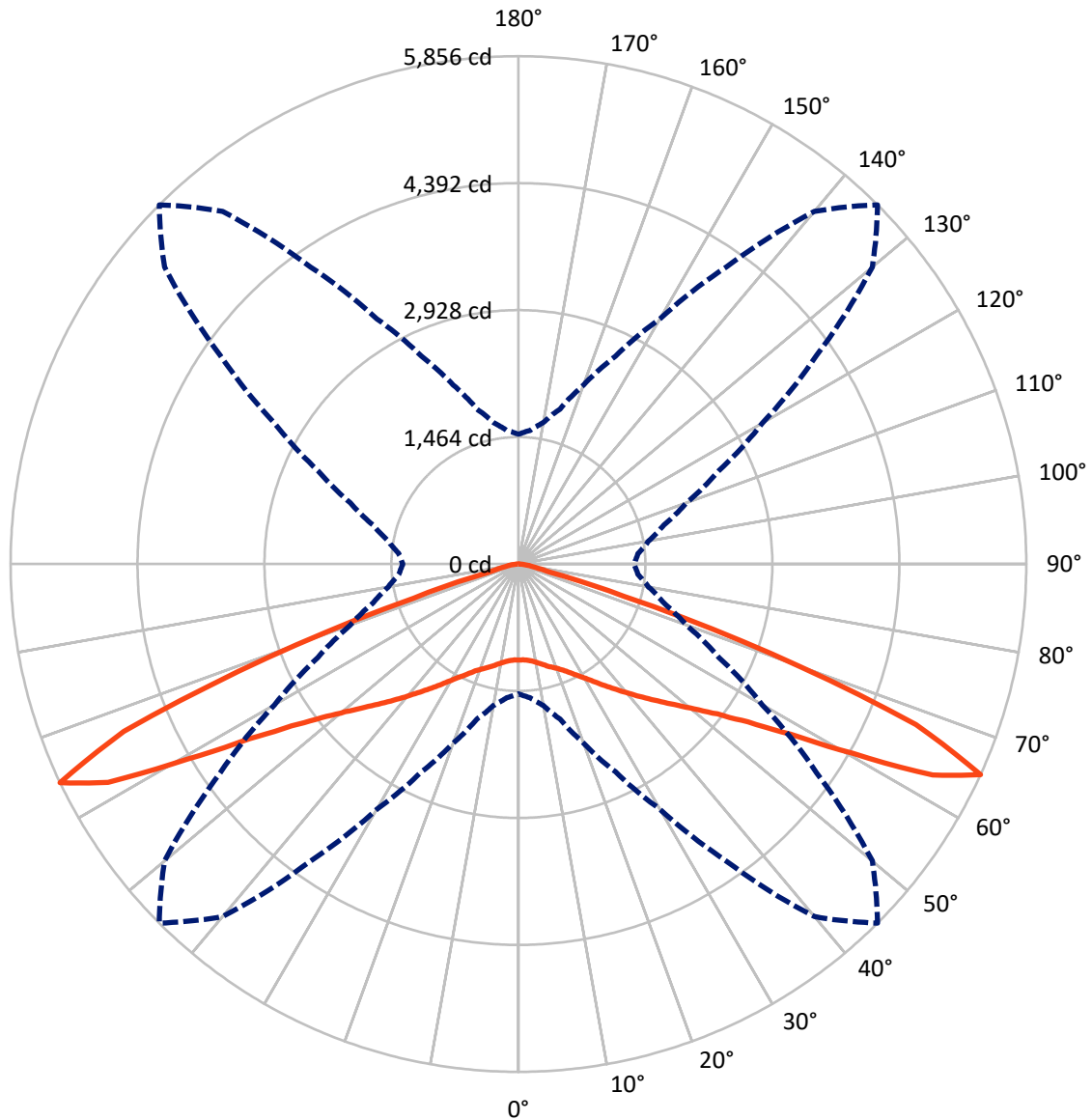
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4891.5	0.0	4891.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4891.5	0.0	4891.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9783.0	0.0	9783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	1.1
10°-20°	346.0	3.5
20°-30°	647.0	6.6
30°-40°	1094.3	11.2
40°-50°	1789.2	18.3
50°-60°	2845.2	29.1
60°-70°	2571.9	26.3
70°-80°	325.5	3.3
80°-90°	56.0	0.6
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°	9783.0	100.0
0°-180°	9783.0	100.0

Coefficient of Utilization



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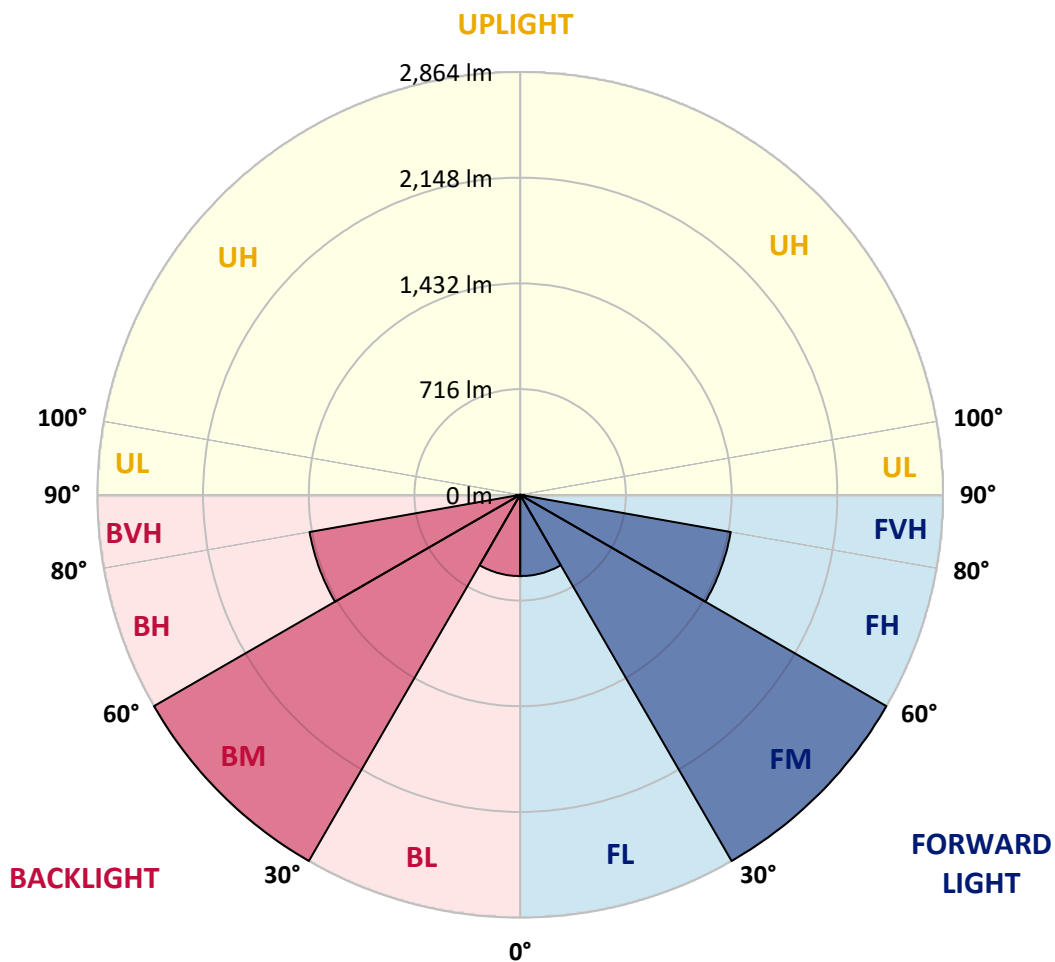
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.5	5.6			
FM	(30°-60°)	2864.3	29.3			
FH	(60°-80°)	1448.7	14.8			G1/1800
FVH	(80°-90°)	28.0	0.3			G1/100
BL	(0°-30°)	550.5	5.6	B2/1000		
BM	(30°-60°)	2864.3	29.3	B3/5000		
BH	(60°-80°)	1448.7	14.8	B3/2500		G1/1800
BVH	(80°-90°)	28.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9
2.5°	1107.9	1108.8	1109.7	1108.8	1109.7	1108.3	1107.4	1108.8	1107.4	1106.0	1106.9
5°	1117.5	1117.9	1117.9	1116.6	1117.9	1117.0	1115.7	1117.5	1116.1	1114.7	1115.7
7.5°	1133.5	1135.4	1134.0	1132.6	1133.5	1132.6	1131.7	1132.1	1131.7	1130.3	1130.8
10°	1155.1	1156.4	1155.5	1155.1	1156.0	1155.5	1154.6	1154.1	1154.6	1153.2	1153.2
12.5°	1181.2	1180.7	1180.3	1180.7	1182.1	1182.1	1181.6	1182.1	1183.0	1183.5	1182.5
15°	1206.8	1207.7	1207.7	1207.7	1210.5	1212.8	1214.2	1215.1	1216.9	1217.4	1215.5
17.5°	1238.9	1238.9	1238.4	1238.9	1241.6	1245.3	1246.7	1248.5	1250.4	1251.7	1249.4
20°	1274.6	1275.6	1275.6	1276.5	1280.1	1284.3	1284.3	1285.2	1284.3	1285.2	1283.8
22.5°	1318.2	1320.9	1320.9	1321.4	1325.0	1330.1	1328.7	1330.1	1327.8	1329.6	1327.8
25°	1375.0	1379.1	1378.2	1378.2	1380.9	1384.1	1384.6	1387.3	1386.9	1389.2	1387.8
27.5°	1439.1	1445.5	1447.4	1446.9	1448.7	1452.0	1452.9	1456.1	1454.2	1456.1	1455.2
30°	1516.1	1518.8	1522.5	1523.9	1526.2	1529.4	1529.4	1529.8	1527.5	1530.3	1531.7
32.5°	1595.8	1600.9	1604.5	1612.8	1616.9	1619.2	1618.7	1619.6	1617.4	1621.0	1623.8
35°	1701.2	1704.9	1710.8	1717.2	1722.7	1722.3	1720.9	1721.4	1721.4	1724.6	1727.3
37.5°	1828.1	1829.0	1836.8	1846.0	1848.7	1846.0	1837.7	1835.9	1831.8	1835.9	1840.5
40°	1962.4	1965.6	1981.1	1987.1	1988.5	1983.4	1971.5	1964.6	1955.5	1960.5	1966.9
42.5°	2103.0	2109.4	2123.6	2134.2	2138.8	2135.5	2119.1	2108.5	2096.6	2099.3	2105.8
45°	2258.8	2266.6	2286.7	2296.8	2305.5	2300.5	2284.5	2268.4	2249.6	2251.0	2261.1
47.5°	2432.9	2440.7	2466.8	2483.8	2488.3	2487.4	2469.6	2447.6	2421.9	2421.0	2429.7
50°	2628.1	2635.9	2668.4	2694.5	2707.8	2706.4	2685.4	2654.2	2623.0	2623.5	2634.5
52.5°	2818.7	2828.3	2862.2	2907.1	2933.2	2952.0	2939.2	2909.9	2871.8	2872.7	2882.8
55°	2997.4	3013.4	3052.3	3113.3	3161.9	3214.5	3229.7	3228.7	3205.8	3212.3	3222.3
57.5°	3084.0	3107.8	3167.8	3264.0	3363.0	3470.2	3560.9	3628.7	3657.6	3701.1	3691.0
60°	2919.9	2958.0	3046.4	3188.0	3383.6	3607.2	3846.8	4080.9	4280.7	4431.5	4344.9
62.5°	2390.7	2440.2	2547.4	2728.9	3024.9	3382.7	3841.3	4394.8	4997.8	5361.5	5101.8
65°	1495.9	1547.3	1656.3	1850.6	2196.9	2641.8	3264.0	4181.3	5307.9	5856.4	5327.6
67.5°	583.3	611.2	670.3	794.5	1054.7	1450.6	2075.1	3116.0	4463.5	4944.1	4380.6
70°	292.3	295.1	306.1	329.0	384.9	499.9	760.6	1444.6	2559.8	3091.8	2467.7
72.5°	211.2	211.7	217.2	227.3	245.1	270.8	320.3	442.1	832.5	1272.3	780.3
75°	161.7	163.6	166.8	172.3	181.9	194.7	212.6	254.7	315.7	366.1	307.9
77.5°	124.6	128.3	130.6	135.6	141.6	150.3	155.3	171.4	199.3	209.8	206.6
80°	94.8	98.0	103.1	107.2	111.3	115.5	113.6	121.0	135.6	144.3	139.7
82.5°	60.5	64.1	78.8	82.5	84.3	87.1	83.8	84.3	90.7	96.2	90.7
85°	38.9	41.2	49.9	54.5	55.0	56.8	55.4	52.2	52.2	47.7	53.6
87.5°	17.9	18.3	22.5	26.6	27.5	24.7	24.3	23.4	18.8	17.9	19.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9	1106.9
2.5°	1106.5	1107.4	1107.9	1109.2	1109.7	1109.7	1110.2	1111.1
5°	1115.2	1116.6	1117.0	1118.9	1119.3	1118.9	1119.8	1120.2
7.5°	1130.8	1133.1	1134.0	1135.8	1134.4	1136.3	1136.7	1136.7
10°	1153.7	1156.0	1156.4	1158.3	1157.3	1158.3	1158.3	1157.3
12.5°	1183.9	1184.4	1183.0	1184.4	1182.5	1183.5	1182.1	1181.2
15°	1217.4	1216.0	1212.8	1212.8	1210.0	1210.5	1210.0	1209.6
17.5°	1249.9	1247.1	1244.9	1243.9	1241.6	1241.2	1239.8	1239.8
20°	1285.6	1284.3	1282.9	1281.1	1278.8	1276.5	1276.0	1276.9
22.5°	1328.7	1328.2	1328.2	1327.3	1324.1	1321.8	1320.5	1320.5
25°	1386.4	1382.3	1382.3	1381.9	1380.5	1379.1	1376.4	1377.7
27.5°	1451.5	1449.2	1451.0	1450.6	1449.2	1449.2	1447.4	1447.4
30°	1531.7	1530.8	1533.5	1531.2	1526.6	1526.2	1524.3	1522.1
32.5°	1624.2	1623.3	1627.4	1624.7	1617.4	1613.2	1609.6	1607.7
35°	1727.3	1727.8	1732.8	1731.0	1722.7	1720.0	1713.6	1712.7
37.5°	1840.0	1847.4	1856.1	1857.9	1851.0	1849.2	1842.3	1838.6
40°	1972.4	1982.1	1995.3	1998.6	1991.2	1989.8	1980.2	1975.2
42.5°	2113.6	2130.0	2146.5	2149.3	2142.0	2134.6	2125.5	2121.8
45°	2271.2	2290.9	2312.4	2317.9	2306.9	2298.2	2286.3	2286.3
47.5°	2448.0	2472.8	2497.0	2512.2	2502.1	2492.9	2478.7	2469.6
50°	2656.9	2690.9	2722.5	2738.0	2722.0	2704.6	2679.9	2671.6
52.5°	2919.0	2955.7	2983.2	2974.9	2950.2	2925.9	2898.9	2887.9
55°	3253.5	3265.9	3265.9	3234.7	3185.2	3144.4	3101.8	3087.6
57.5°	3671.8	3624.1	3550.8	3457.8	3341.0	3239.3	3170.6	3138.0
60°	4163.4	3934.3	3675.5	3421.2	3212.3	3040.0	2937.8	2891.1
62.5°	4491.0	3891.7	3373.1	2964.8	2664.3	2456.7	2315.6	2260.6
65°	4197.3	3245.7	2551.1	2062.7	1735.1	1523.9	1384.1	1332.8
67.5°	3074.3	2033.8	1358.5	973.6	713.4	569.1	511.8	488.0
70°	1380.0	716.1	438.9	342.7	295.5	271.2	260.7	257.0
72.5°	416.0	301.0	253.8	229.1	210.3	198.4	189.7	188.8
75°	251.1	208.9	185.6	170.9	159.0	149.4	144.8	143.4
77.5°	175.5	153.5	142.5	132.0	122.8	115.5	111.3	108.1
80°	123.2	112.7	107.7	101.7	95.8	88.9	82.9	80.2
82.5°	82.5	80.2	80.2	76.5	71.5	65.1	53.1	50.4
85°	53.1	52.7	53.6	52.2	48.6	41.7	34.4	32.5
87.5°	24.7	25.2	27.9	27.5	26.6	22.0	17.4	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)