

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: P522657

Luminaire Tested: **GALN-SA2A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7313 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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: 24 FT

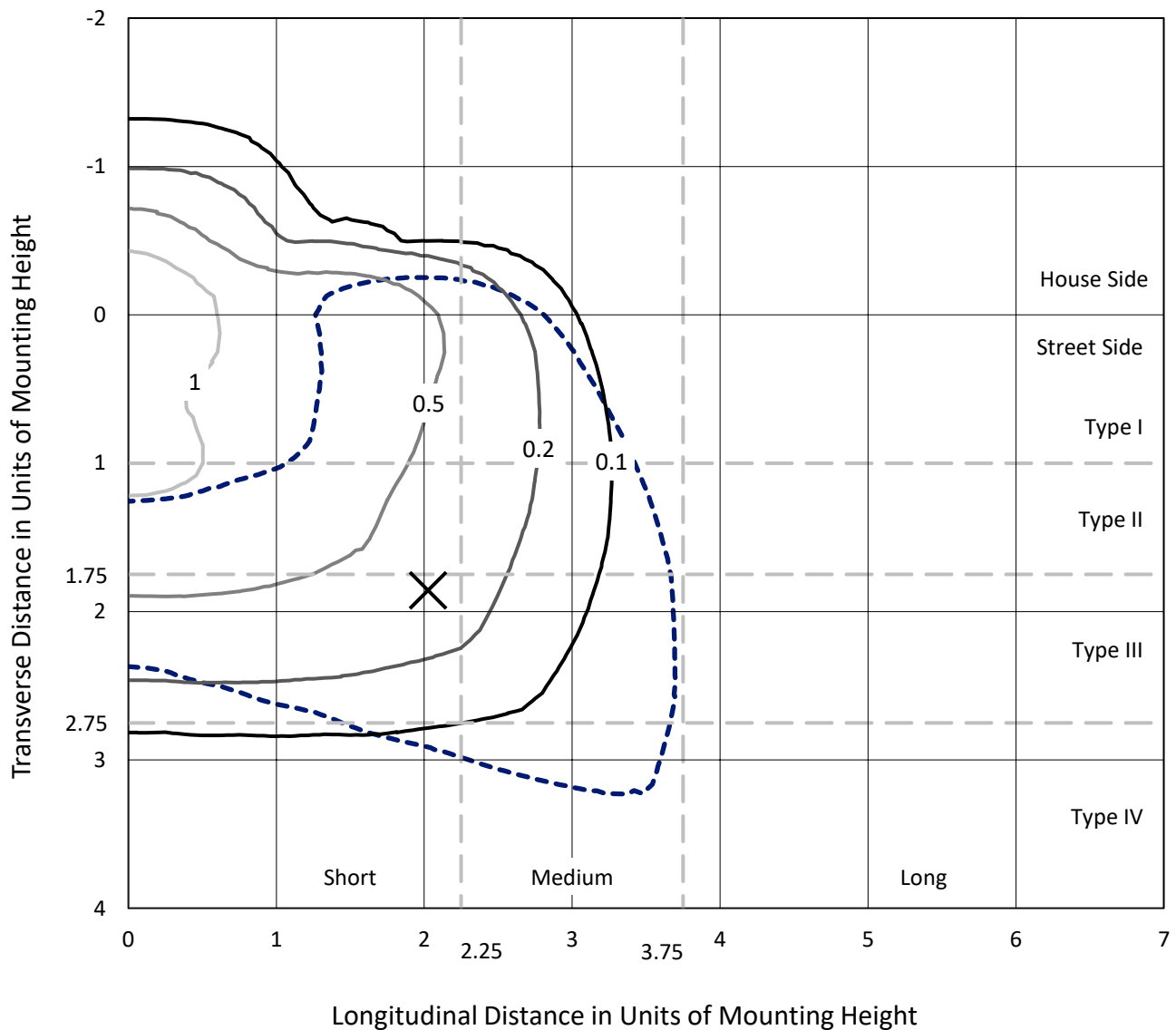


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

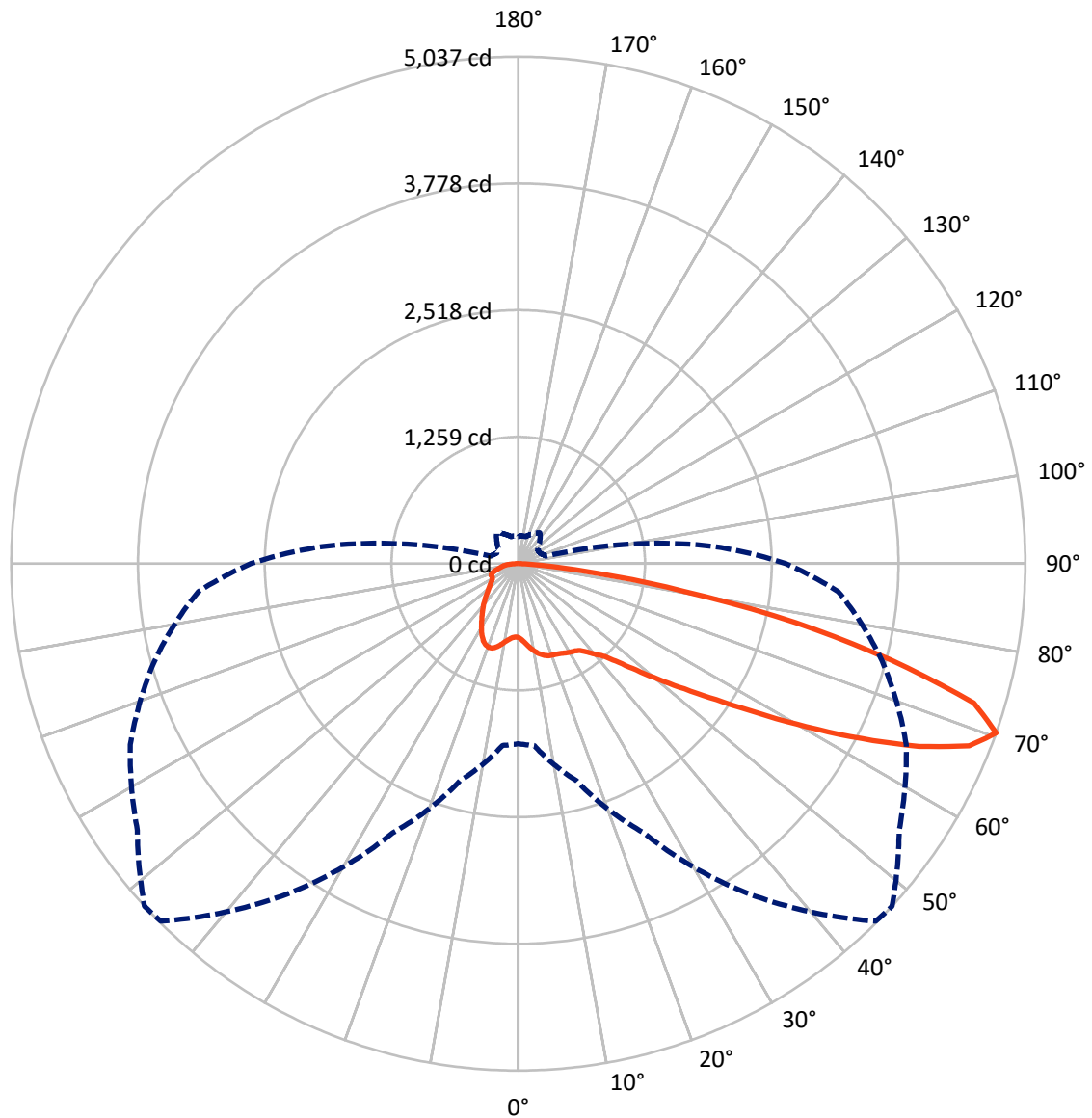


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.8	0.0	1655.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5657.2	0.0	5657.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	7313.0	0.0	7313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	1.0
10°-20°	253.0	3.5
20°-30°	420.7	5.8
30°-40°	596.3	8.2
40°-50°	880.3	12.0
50°-60°	1524.6	20.8
60°-70°	2153.6	29.4
70°-80°	1238.0	16.9
80°-90°	170.8	2.3
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°	7313.0	100.0
0°-180°	7313.0	100.0

Coefficient of Utilization



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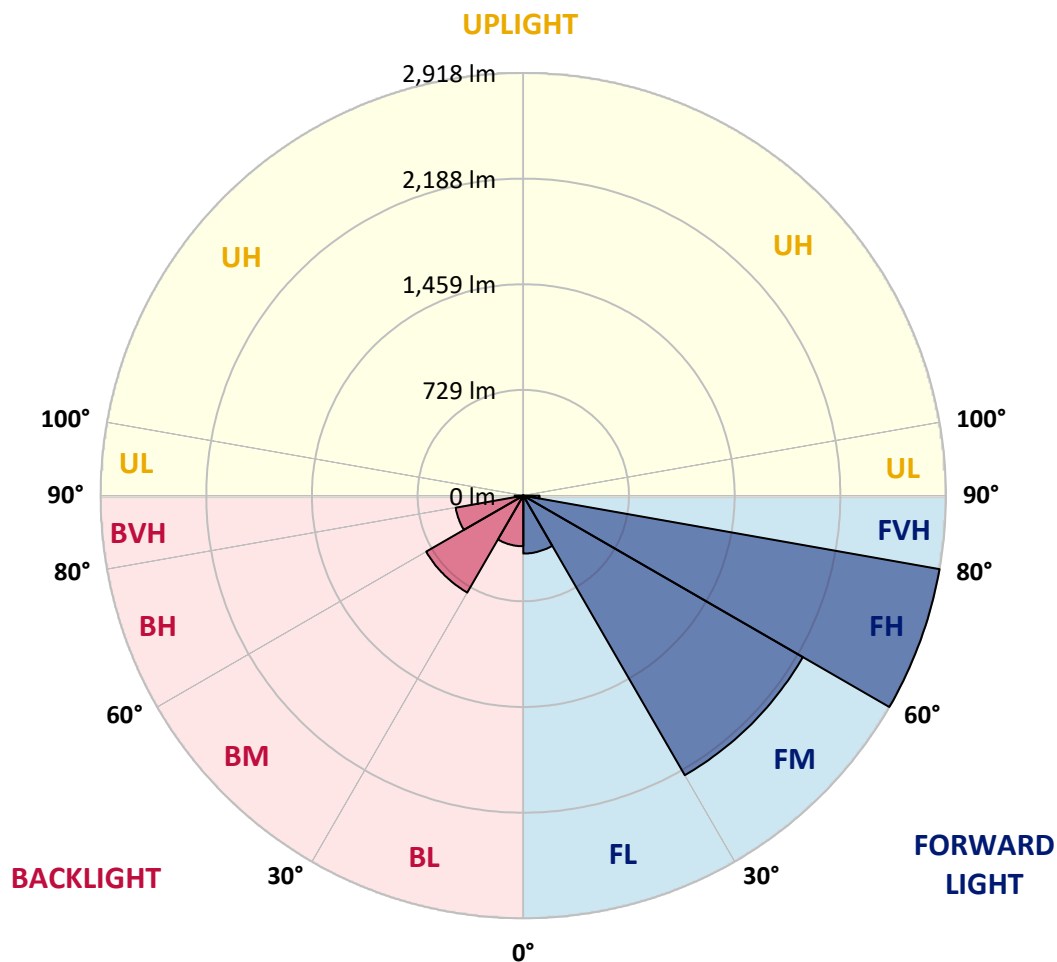
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.9	5.5			
FM	(30°-60°)	2228.1	30.5			
FH	(60°-80°)	2917.6	39.9			G2/5000
FVH	(80°-90°)	111.6	1.5			G2/225
BL	(0°-30°)	349.5	4.8	B1/500		
BM	(30°-60°)	773.1	10.6	B1/1000		
BH	(60°-80°)	474.0	6.5	B1/500		G1/500
BVH	(80°-90°)	59.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1
2.5°	781.5	778.7	778.4	772.5	769.4	763.5	761.1	755.7	749.0	742.4	736.1
5°	842.9	842.9	840.2	832.0	819.1	805.8	799.9	789.3	770.5	755.3	742.4
7.5°	905.9	906.7	901.2	889.1	870.7	849.2	843.7	828.1	801.4	779.1	760.0
10°	960.3	960.3	952.9	936.5	913.4	889.9	884.4	866.8	837.1	809.3	784.2
12.5°	1001.8	1001.8	992.0	970.5	945.5	924.3	918.1	901.2	873.5	842.5	810.8
15°	1028.8	1026.9	1015.9	991.6	967.4	949.0	944.7	930.6	905.1	873.8	838.2
17.5°	1030.0	1029.2	1018.6	998.3	977.2	964.6	961.9	952.5	932.5	902.8	865.2
20°	1007.3	1008.9	1001.8	987.3	977.2	971.7	970.5	967.4	953.3	925.5	887.9
22.5°	983.0	985.8	979.1	971.3	970.5	976.0	976.8	977.5	968.5	941.5	907.1
25°	977.2	979.1	972.5	965.4	969.7	984.2	987.3	990.5	983.4	960.7	929.8
27.5°	1006.9	1005.3	992.4	977.2	979.9	999.5	1003.8	1007.3	1003.8	984.2	958.0
30°	1091.0	1085.9	1060.1	1015.5	1001.4	1015.1	1019.4	1029.2	1029.2	1014.7	988.5
32.5°	1231.9	1222.1	1174.8	1087.1	1038.2	1030.0	1034.3	1050.3	1058.6	1047.2	1018.6
35°	1402.9	1392.7	1325.0	1207.3	1105.5	1059.7	1058.6	1076.6	1098.5	1073.0	1035.9
37.5°	1574.7	1564.2	1482.8	1350.5	1203.7	1122.3	1115.3	1121.6	1130.9	1084.4	1059.7
40°	1746.5	1734.0	1662.8	1510.5	1323.9	1205.3	1186.9	1158.7	1154.8	1121.6	1105.9
42.5°	1916.7	1905.4	1869.4	1690.2	1467.9	1286.3	1258.1	1209.6	1224.5	1204.5	1190.8
45°	2088.5	2089.3	2051.0	1891.7	1641.6	1435.8	1397.8	1321.9	1357.1	1349.7	1357.5
47.5°	2240.8	2238.8	2225.1	2087.4	1857.3	1628.3	1579.4	1491.4	1551.6	1579.0	1638.9
50°	2388.3	2387.1	2387.9	2309.2	2107.7	1857.3	1803.3	1710.9	1846.7	1941.8	2049.0
52.5°	2599.6	2606.3	2558.9	2538.2	2412.2	2127.7	2068.2	1972.7	2195.4	2345.2	2554.6
55°	2811.7	2806.2	2769.1	2790.6	2730.7	2447.8	2385.6	2309.6	2583.6	2747.5	3062.2
57.5°	2936.5	2938.5	2976.5	3081.7	3124.0	2846.9	2790.6	2731.9	3019.9	3136.1	3513.8
60°	3048.9	3057.9	3167.0	3365.8	3480.5	3337.3	3287.2	3230.0	3420.2	3466.4	3905.9
62.5°	3084.1	3111.9	3302.4	3599.9	3828.0	3890.6	3828.4	3702.4	3801.4	3783.4	4171.6
65°	2908.4	2946.3	3288.0	3687.5	4138.3	4415.8	4376.3	4142.2	4126.2	4017.8	4215.0
67.5°	2445.8	2483.8	2922.5	3503.6	4266.7	4870.5	4831.0	4463.1	4323.4	4039.7	3886.3
70°	1789.6	1813.4	2232.9	2949.9	4008.8	5023.1	5036.8	4619.7	4253.0	3741.9	3190.9
72.5°	1031.2	1084.0	1377.9	2075.2	3275.1	4637.3	4732.4	4294.1	3807.7	3121.6	2231.0
75°	443.4	444.6	637.1	1144.6	2218.1	3727.4	3819.4	3559.5	2990.2	2158.6	1191.2
77.5°	210.9	214.8	280.2	511.1	1221.0	2575.4	2823.5	2514.7	1912.4	1037.0	450.0
80°	137.0	139.7	171.4	253.6	598.7	1493.3	1666.3	1450.7	843.7	370.6	194.1
82.5°	83.0	83.7	114.7	155.0	329.5	676.2	797.1	629.7	360.0	221.9	114.3
85°	50.5	50.9	69.7	95.9	200.0	233.6	239.9	237.9	211.3	145.2	61.0
87.5°	24.3	25.0	36.0	45.4	78.7	72.4	68.5	79.4	99.8	78.3	26.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1	734.1
2.5°	733.4	732.2	729.4	728.3	727.5	727.9	727.5	727.5	727.9	727.9	727.9
5°	736.9	734.9	730.6	730.6	733.0	738.4	743.5	747.4	751.7	751.4	751.4
7.5°	752.1	748.6	743.5	745.1	751.0	759.6	768.6	777.2	785.8	786.6	786.2
10°	774.4	770.9	765.4	767.4	776.8	789.7	801.1	813.6	823.0	825.7	824.9
12.5°	799.9	792.8	788.1	793.6	808.5	825.7	836.7	846.1	852.7	856.6	855.1
15°	825.7	819.1	813.6	824.9	842.9	859.0	864.5	866.0	867.2	871.1	870.3
17.5°	850.8	841.8	839.8	854.7	871.9	878.9	875.8	869.1	864.1	867.2	866.8
20°	873.1	866.0	865.2	880.1	886.8	880.1	866.8	855.1	846.1	846.8	846.4
22.5°	894.2	888.7	889.5	895.8	885.2	862.5	840.6	824.5	814.8	816.7	817.9
25°	917.7	912.2	914.1	904.0	869.1	829.6	797.9	784.2	780.3	784.2	787.0
27.5°	948.2	944.7	943.5	904.4	840.6	781.1	745.1	740.0	743.5	752.1	756.4
30°	981.1	981.1	974.8	897.7	801.4	722.8	691.5	692.3	704.4	716.5	720.8
32.5°	1012.8	1019.4	999.9	879.7	751.0	666.0	642.2	643.0	653.5	668.4	672.3
35°	1039.0	1058.2	1021.4	846.8	691.5	618.3	600.3	589.7	590.1	601.5	604.6
37.5°	1075.0	1110.6	1033.9	797.9	628.1	577.6	557.3	538.9	526.7	522.0	522.0
40°	1137.6	1190.0	1037.0	725.5	568.2	538.9	509.9	488.0	464.5	443.4	439.5
42.5°	1243.7	1309.8	1030.8	642.2	514.2	496.2	468.0	441.0	408.5	378.8	376.5
45°	1431.5	1465.5	1013.9	555.7	466.1	455.1	427.7	398.4	363.9	337.3	335.4
47.5°	1732.4	1684.3	991.6	479.0	422.2	419.1	398.0	363.9	329.5	311.1	309.2
50°	2171.9	2028.7	988.5	423.4	387.0	388.6	371.4	340.1	309.9	294.7	292.3
52.5°	2701.0	2444.6	1009.2	384.3	356.1	362.0	353.4	324.4	297.8	284.9	282.5
55°	3214.4	2818.8	1021.8	353.8	327.2	338.1	339.3	315.0	290.8	277.8	276.3
57.5°	3631.2	3100.5	966.2	326.0	302.1	318.9	327.5	309.5	287.2	277.5	275.9
60°	3921.1	3233.6	808.1	301.3	283.7	303.7	323.2	309.9	295.8	297.0	297.8
62.5°	4013.5	3174.5	606.2	282.9	271.2	298.6	330.3	326.0	311.5	320.5	322.1
65°	3860.5	2930.3	439.5	268.5	260.2	302.1	351.4	337.7	306.0	312.7	312.7
67.5°	3348.2	2524.5	342.0	255.1	247.7	308.8	372.5	336.5	293.1	300.9	293.9
70°	2656.0	1952.7	284.9	240.3	234.4	299.0	374.5	324.4	277.8	279.4	266.1
72.5°	1762.6	1284.0	245.0	226.2	214.1	268.8	358.5	308.8	263.0	254.0	240.7
75°	863.7	640.2	213.7	208.6	187.4	234.0	336.5	293.9	246.9	232.8	225.4
77.5°	334.6	272.4	182.4	186.3	163.2	206.2	307.6	272.8	225.8	206.6	200.8
80°	162.4	154.6	149.5	155.4	134.2	175.7	281.0	254.4	206.2	185.1	176.5
82.5°	101.0	95.5	114.7	120.9	103.3	160.4	266.5	238.7	181.6	153.4	146.4
85°	51.3	54.8	76.7	82.6	74.0	127.6	219.5	179.2	131.1	108.8	109.6
87.5°	19.6	26.2	40.3	43.4	39.5	67.3	120.9	104.5	84.1	57.1	52.8
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)