

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: P301081

Luminaire Tested: **GLNA-AF-01-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
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-T3R-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6142.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

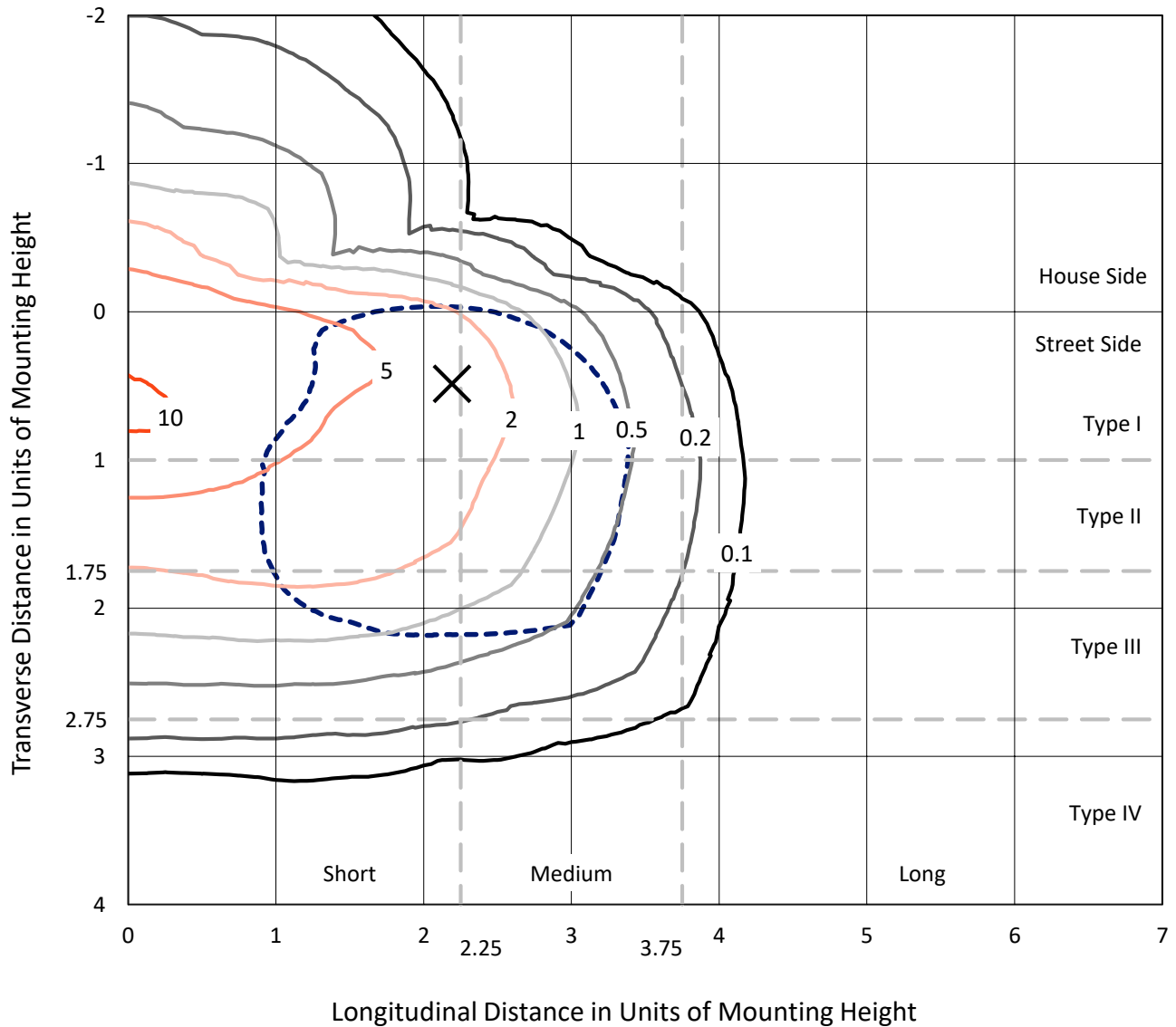
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

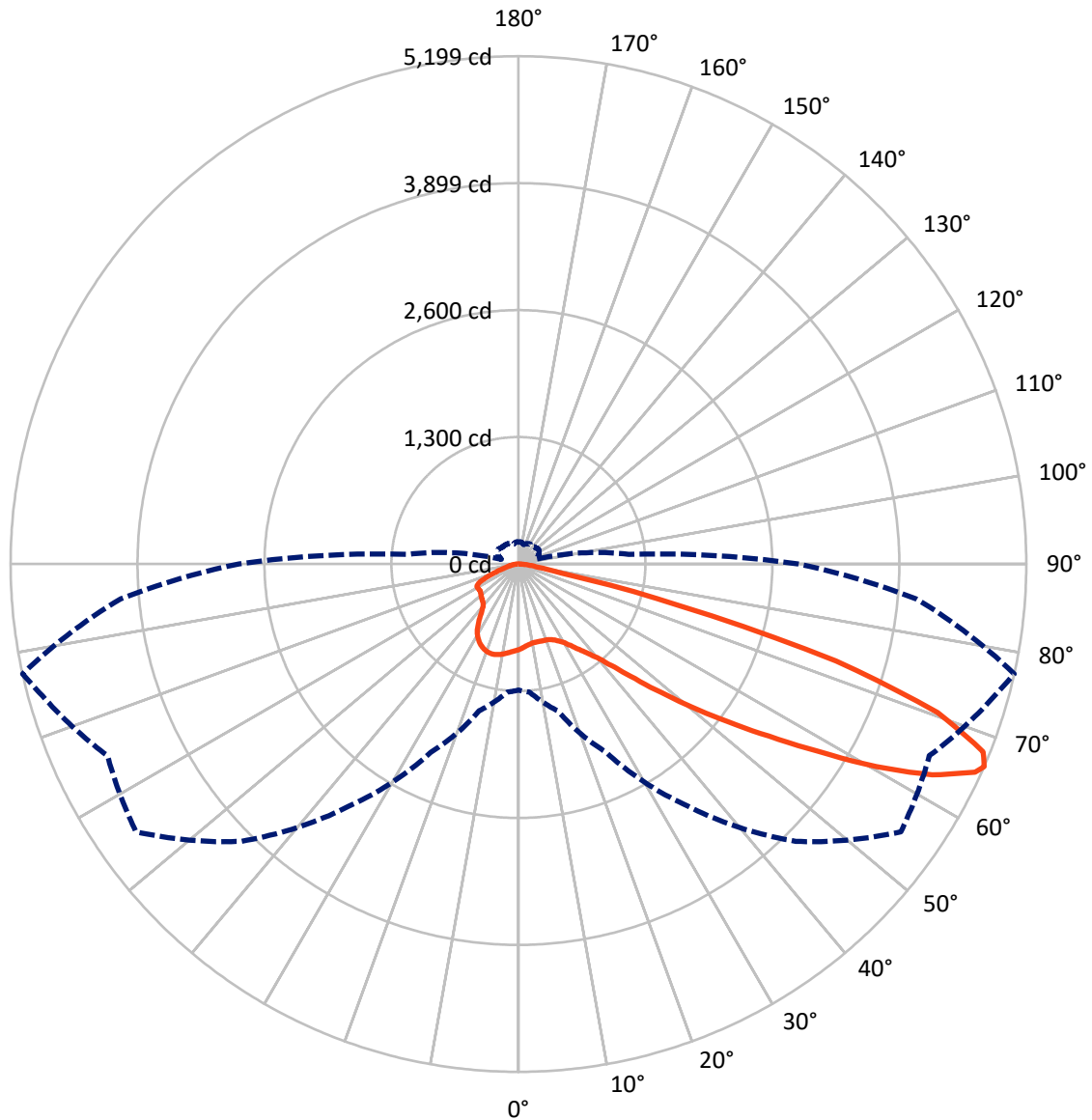
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.3	0.0	1049.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5092.7	0.0	5092.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	6142.1	0.0	6142.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.3
10°-20°	220.6	3.6
20°-30°	376.5	6.1
30°-40°	602.7	9.8
40°-50°	931.1	15.2
50°-60°	1320.7	21.5
60°-70°	1766.7	28.8
70°-80°	767.3	12.5
80°-90°	78.2	1.3
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°	6142.1	100.0
0°-180°	6142.1	100.0



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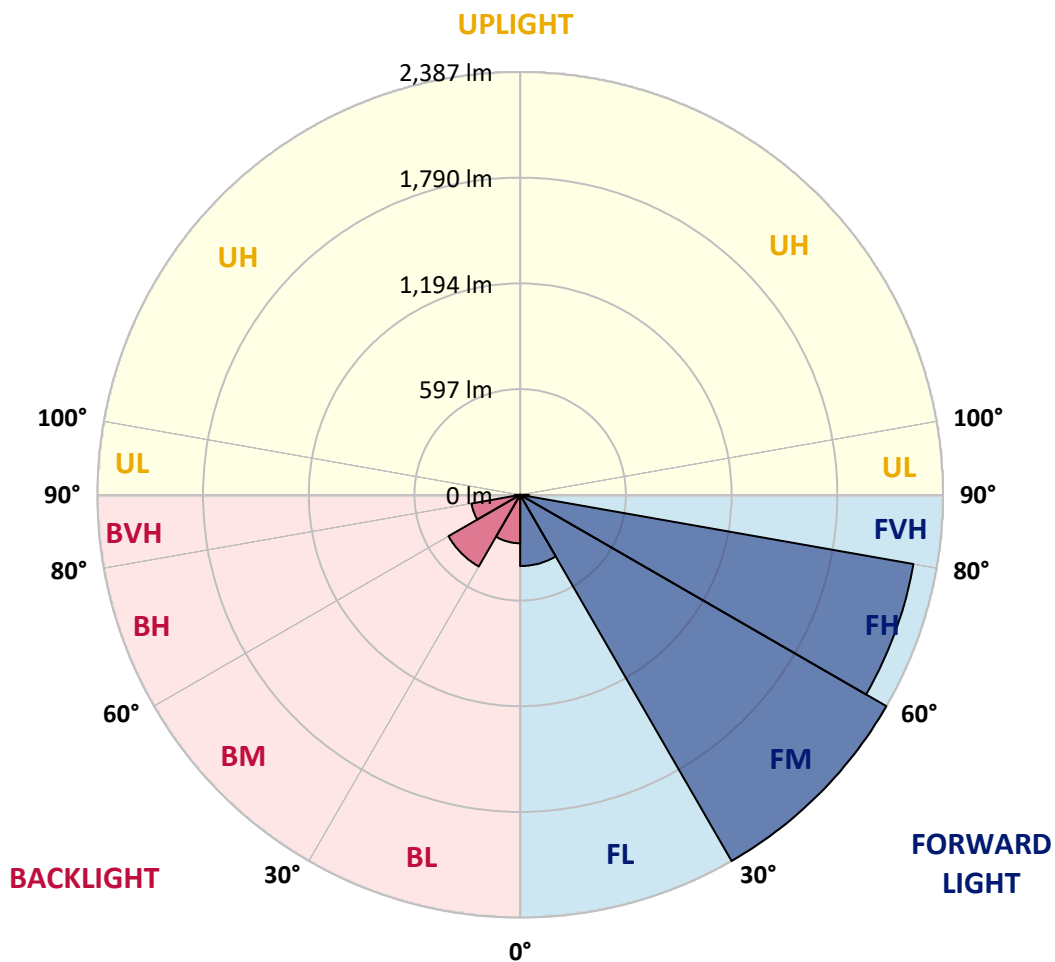
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.0	6.5			
FM	(30°-60°)	2387.1	38.9			
FH	(60°-80°)	2254.5	36.7			G2/5000
FVH	(80°-90°)	49.1	0.8			G1/100
BL	(0°-30°)	273.3	4.4	B1/500		
BM	(30°-60°)	467.4	7.6	B1/1000		
BH	(60°-80°)	279.5	4.5	B1/500		G1/500
BVH	(80°-90°)	29.2	0.5			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°	77.5°	85°
0°	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3
2.5°	774.3	779.5	783.9	787.9	796.0	809.4	824.7	837.2	855.2	858.7	868.3
5°	703.2	703.2	706.6	712.8	723.8	743.8	764.7	792.6	831.8	841.0	866.6
7.5°	668.7	668.9	671.0	676.2	685.7	704.0	726.9	759.8	812.9	828.3	871.8
10°	681.4	678.5	674.1	671.6	673.0	683.7	705.5	742.1	801.3	821.0	883.4
12.5°	752.8	747.3	732.2	712.2	693.0	685.2	697.9	733.6	796.4	819.3	898.8
15°	869.5	867.2	839.0	797.5	751.1	712.2	703.5	730.5	796.9	821.3	917.1
17.5°	1015.8	1012.5	975.4	915.1	839.3	763.6	722.9	733.1	798.9	824.7	934.8
20°	1163.5	1153.5	1113.6	1041.6	944.3	833.4	755.1	739.8	801.5	828.5	953.4
22.5°	1273.8	1265.6	1229.6	1159.7	1047.7	914.5	798.4	751.4	810.0	839.6	976.2
25°	1370.7	1371.2	1335.5	1268.0	1152.1	1000.4	854.1	782.4	831.4	862.2	1007.6
27.5°	1490.5	1483.6	1450.2	1383.2	1255.5	1087.1	921.4	825.1	863.4	894.4	1048.8
30°	1633.8	1628.9	1590.3	1514.3	1370.1	1180.3	998.3	874.7	904.6	936.8	1102.8
32.5°	1802.5	1800.2	1760.1	1662.3	1502.4	1290.0	1088.6	940.3	966.1	999.5	1180.3
35°	2000.4	2000.7	1953.4	1835.9	1647.2	1417.7	1191.0	1024.7	1041.0	1075.8	1272.6
37.5°	2122.3	2137.1	2119.4	1999.6	1811.2	1560.5	1323.9	1136.8	1126.3	1161.5	1371.6
40°	2148.4	2166.4	2222.4	2161.5	1994.6	1717.8	1441.8	1244.4	1231.4	1274.3	1499.0
42.5°	2111.9	2136.8	2255.3	2298.1	2189.4	1911.6	1600.2	1404.3	1387.8	1445.5	1657.4
45°	2090.1	2108.7	2245.7	2369.3	2358.2	2130.7	1801.9	1605.1	1599.0	1674.8	1840.2
47.5°	2052.4	2069.2	2201.0	2385.8	2457.5	2331.5	2044.3	1850.7	1862.6	1961.9	2046.6
50°	2072.7	2079.6	2151.0	2343.7	2486.3	2478.7	2315.0	2135.1	2175.7	2299.6	2280.2
52.5°	2069.8	2087.8	2145.2	2274.7	2490.0	2569.6	2581.7	2452.3	2537.9	2680.1	2539.3
55°	1673.4	1706.4	2077.1	2257.3	2503.3	2658.6	2819.1	2786.6	2946.2	3111.9	2831.9
57.5°	1597.9	1618.8	1824.3	2293.8	2574.1	2828.7	3083.2	3154.6	3421.5	3614.0	3188.3
60°	1583.1	1608.9	1821.6	2338.6	2717.8	3105.8	3474.7	3600.1	4000.0	4210.7	3601.5
62.5°	1536.9	1564.8	1804.5	2332.7	2921.8	3489.2	3975.9	4073.7	4548.5	4753.4	3947.2
65°	1390.7	1416.8	1664.9	2239.0	3059.4	3898.4	4569.0	4507.9	4981.5	5135.5	4119.5
66°	1290.5	1316.1	1554.9	2128.7	3027.5	4014.5	4779.2	4642.2	5078.4	5199.1	4085.8
67.5°	1107.4	1127.5	1341.3	1881.7	2857.7	4047.0	4955.9	4743.2	5088.5	5131.2	3893.5
70°	699.7	705.5	871.8	1299.0	2163.3	3509.8	4686.9	4492.5	4668.9	4553.4	3264.0
72.5°	303.6	301.6	418.5	660.8	1224.7	2355.1	3791.3	3706.9	3662.5	3399.0	2284.9
75°	168.9	171.3	217.4	306.8	497.7	1156.8	2480.1	2373.4	2003.9	1709.9	1036.1
77.5°	135.5	138.7	180.2	217.7	223.5	403.4	1160.6	944.3	568.5	456.2	287.9
80°	107.1	112.9	157.3	169.5	150.6	166.2	374.9	299.8	224.9	206.3	149.2
82.5°	84.7	88.8	135.0	128.3	105.4	112.0	179.6	175.0	146.3	133.2	86.2
85°	61.0	68.5	110.9	96.7	69.1	75.5	119.2	114.3	83.8	68.5	38.0
87.5°	25.0	32.5	78.4	64.1	38.6	35.1	59.5	56.0	39.7	29.0	18.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3	875.3
2.5°	874.4	881.3	890.4	895.9	898.8	900.8	904.0	903.7	904.6	904.9	906.0
5°	880.2	891.8	904.9	908.4	908.4	905.1	902.0	896.7	894.7	894.2	894.7
7.5°	895.3	908.0	919.4	915.3	906.6	893.8	877.3	862.8	855.0	852.3	851.8
10°	914.5	929.8	934.5	919.1	893.5	862.8	830.0	806.2	792.6	788.8	787.7
12.5°	937.7	952.2	945.8	913.3	866.0	816.4	771.1	733.1	704.6	695.7	695.0
15°	963.2	974.6	952.2	895.3	824.7	751.6	671.0	605.4	570.0	558.7	557.8
17.5°	987.0	992.8	948.4	863.9	764.1	645.8	538.6	488.1	476.0	478.9	479.4
20°	1007.3	1007.3	935.6	818.9	668.7	506.1	438.5	437.7	446.4	455.1	456.8
22.5°	1029.7	1016.3	913.3	755.4	533.4	414.1	404.3	412.4	422.2	431.8	433.3
25°	1057.2	1023.6	882.2	659.1	419.3	376.1	379.9	386.5	391.5	397.6	398.5
27.5°	1088.0	1032.8	841.3	526.4	364.0	352.4	355.3	357.5	356.9	359.3	359.8
30°	1124.8	1043.6	785.3	411.5	341.0	332.0	326.8	324.8	324.8	328.5	329.9
32.5°	1174.2	1059.5	704.9	352.6	329.9	317.5	300.7	293.1	296.0	308.8	311.7
35°	1228.5	1076.7	596.1	332.6	327.7	310.8	284.7	270.7	271.1	282.9	286.7
37.5°	1287.6	1098.5	476.8	328.8	332.8	311.1	276.3	257.1	249.3	249.3	250.8
40°	1363.4	1120.8	386.0	331.4	343.9	314.6	272.0	246.4	224.3	224.9	226.1
42.5°	1462.1	1139.9	337.2	336.9	357.3	319.2	271.6	232.2	213.0	226.1	238.0
45°	1571.8	1149.5	315.7	341.9	368.0	322.1	267.0	229.9	214.5	253.3	276.0
47.5°	1698.0	1144.0	303.9	343.6	370.6	322.1	261.8	235.4	224.6	293.4	319.8
50°	1836.5	1128.1	292.3	340.1	369.8	321.5	266.7	240.9	228.4	300.3	318.6
52.5°	1999.3	1114.7	280.0	332.6	363.6	318.4	272.5	238.6	216.5	273.1	285.8
55°	2185.0	1118.5	266.4	321.9	354.0	312.3	270.5	229.3	204.0	240.6	248.4
57.5°	2422.4	1163.5	250.2	308.2	341.0	302.1	263.3	224.9	200.3	218.3	222.9
60°	2687.3	1241.8	229.9	294.5	324.8	285.8	257.7	227.0	202.0	216.5	218.8
62.5°	2881.8	1287.4	212.5	274.5	302.7	267.8	250.8	229.5	206.7	222.6	222.0
65°	2934.6	1212.5	190.7	245.2	272.8	249.0	242.0	232.4	208.7	227.5	224.9
66°	2860.6	1131.8	181.1	231.6	257.7	239.7	237.7	232.2	207.8	228.1	223.7
67.5°	2681.0	966.4	164.6	211.6	233.6	225.8	230.7	229.5	205.4	227.5	221.4
70°	2186.5	659.4	140.8	176.2	194.5	198.8	217.4	220.3	197.9	217.4	204.0
72.5°	1527.7	401.7	124.5	136.7	157.3	169.5	199.1	207.5	187.8	189.8	177.1
75°	738.3	213.3	112.9	106.0	122.1	141.6	177.1	190.1	171.8	158.8	154.1
77.5°	230.1	130.3	95.8	85.3	95.8	114.3	148.0	166.6	153.0	132.9	131.2
80°	123.6	95.8	73.7	68.5	75.7	89.7	116.3	139.0	131.5	119.2	106.5
82.5°	81.5	62.1	54.6	53.1	57.7	68.5	86.5	115.2	115.2	102.2	74.3
85°	42.1	38.0	37.4	37.4	40.3	45.6	58.9	88.8	94.6	54.0	44.7
87.5°	20.9	21.8	20.3	21.2	22.7	22.3	28.1	44.7	53.4	32.8	27.2
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)