

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: P298976

Luminaire Tested: **GLNA-AF-01-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3883.8 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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

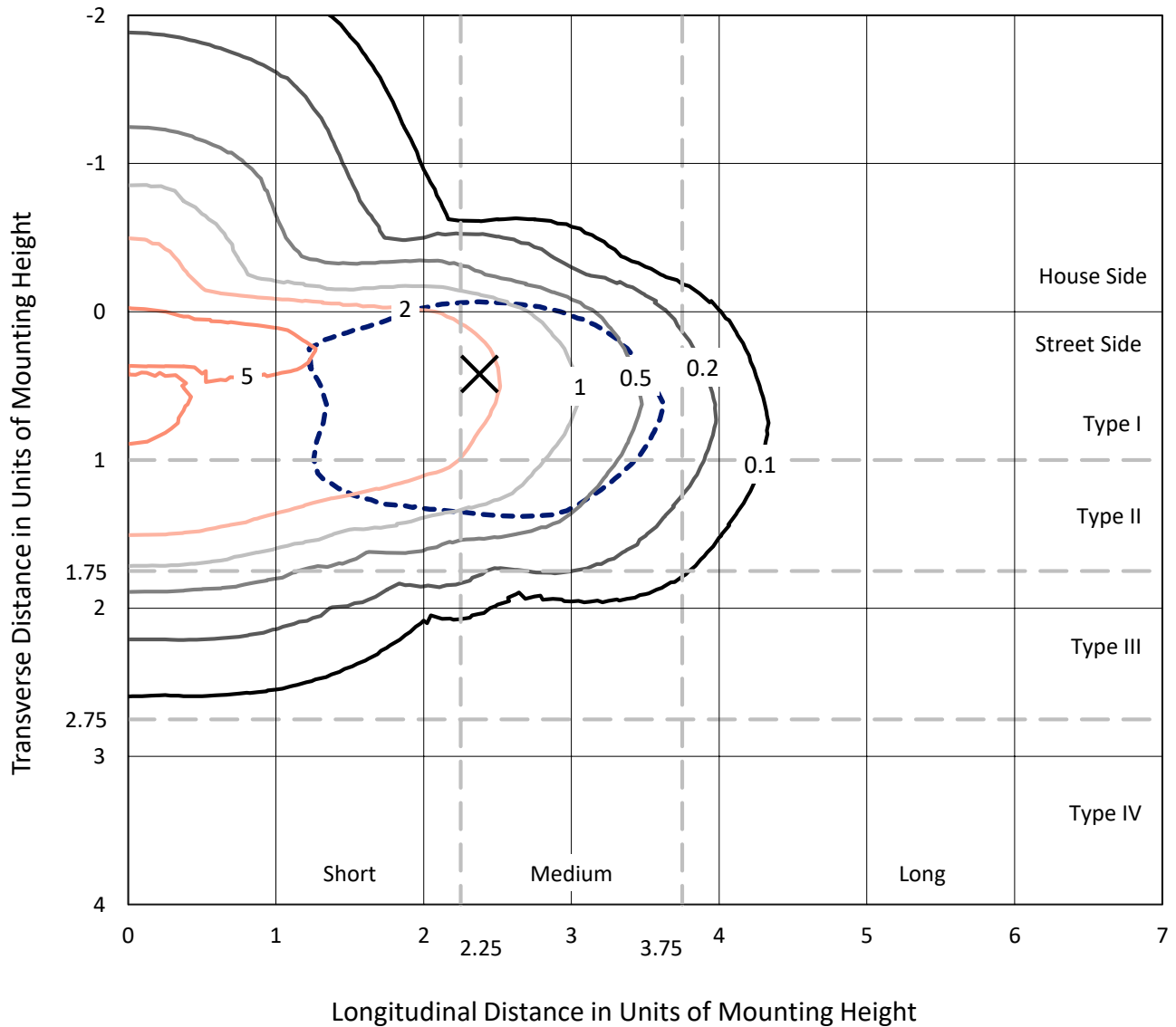


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

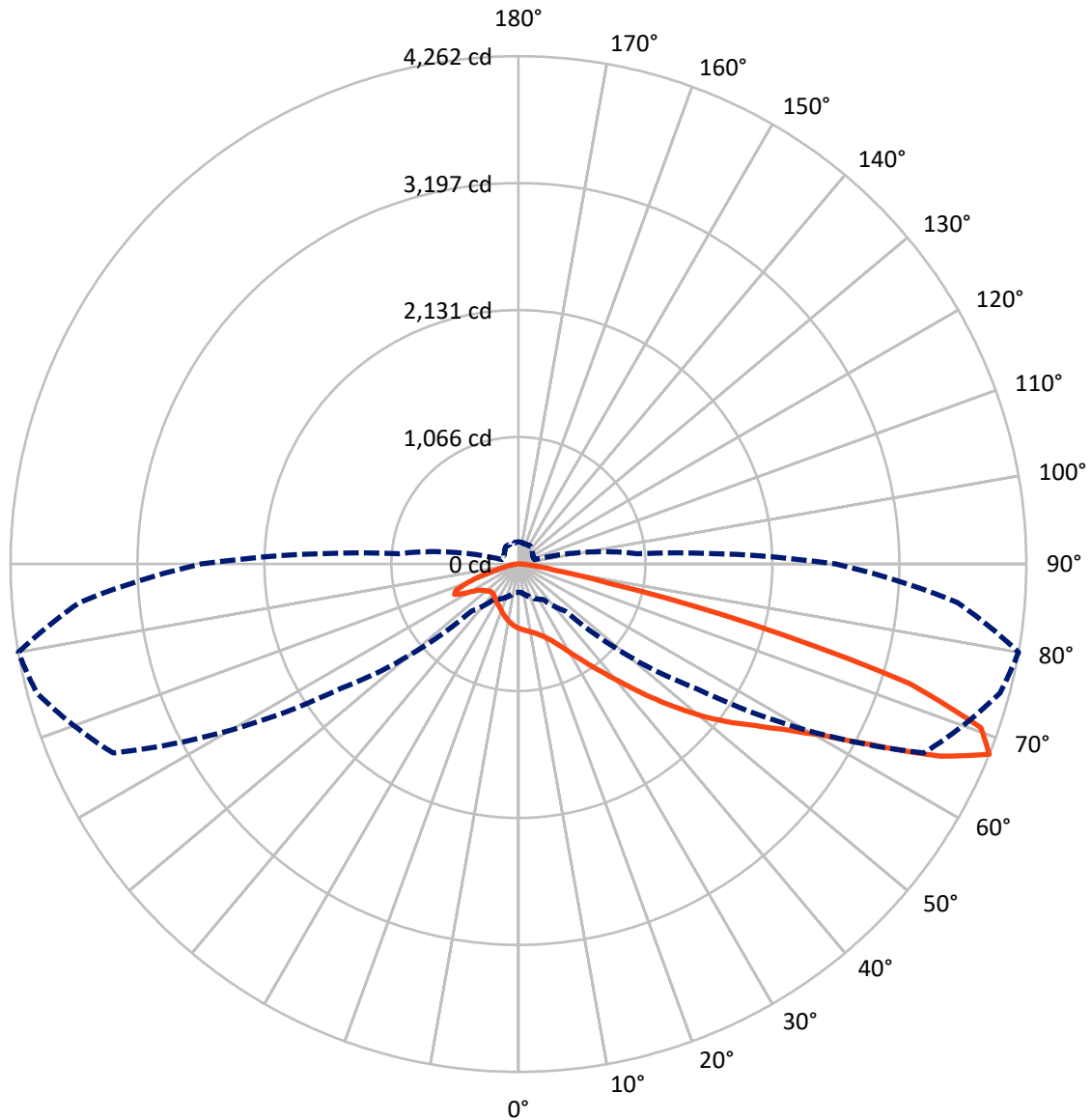


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	715.2	0.0	715.2
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	3168.5	0.0	3168.5
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	3883.8	0.0	3883.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.8	1.3
10°-20°	143.4	3.7
20°-30°	237.3	6.1
30°-40°	388.2	10.0
40°-50°	626.8	16.1
50°-60°	904.9	23.3
60°-70°	998.6	25.7
70°-80°	460.3	11.9
80°-90°	74.5	1.9
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°	3883.8	100.0
0°-180°	3883.8	100.0



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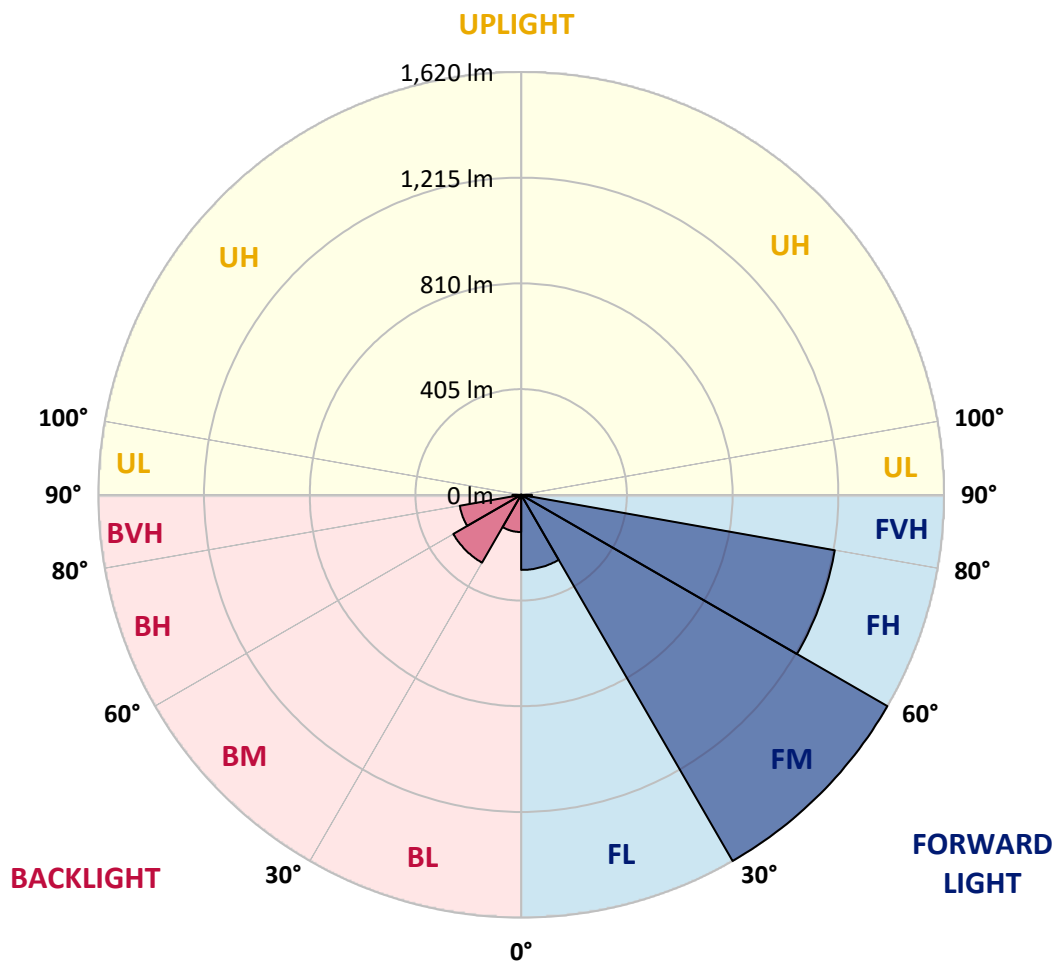
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.8	7.4			
FM	(30°-60°)	1619.8	41.7			
FH	(60°-80°)	1220.0	31.4			G1/1800
FVH	(80°-90°)	40.9	1.1			G1/100
BL	(0°-30°)	142.7	3.7	B1/500		
BM	(30°-60°)	300.1	7.7	B1/1000		
BH	(60°-80°)	238.9	6.2	B1/500		G1/500
BVH	(80°-90°)	33.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6
2.5°	590.2	586.8	587.4	586.4	583.5	578.6	573.2	563.5	553.3	548.0	543.8
5°	639.6	638.6	637.3	634.2	626.9	616.6	603.8	586.6	568.1	558.3	548.9
7.5°	676.5	675.9	674.2	672.3	665.2	652.8	633.4	609.0	582.0	568.6	554.1
10°	679.5	680.5	681.8	687.0	687.9	681.2	661.6	631.9	596.5	579.3	560.8
12.5°	653.5	655.6	660.8	674.0	687.9	696.2	686.0	656.0	613.6	592.7	569.2
15°	619.1	620.3	626.6	644.7	669.8	695.2	704.8	682.6	635.6	609.9	581.8
17.5°	604.4	605.0	609.4	621.4	644.7	681.1	715.3	711.5	662.5	631.3	597.3
20°	596.9	598.3	604.6	616.4	631.2	662.9	716.8	742.6	694.6	658.1	616.8
22.5°	618.2	617.6	619.9	625.8	638.2	657.3	715.7	774.7	735.5	692.5	642.2
25°	667.7	669.8	665.8	659.1	663.1	676.5	721.8	809.5	786.8	736.7	675.5
27.5°	738.2	736.1	730.2	714.5	706.3	712.0	742.1	847.0	850.5	794.8	719.5
30°	808.6	806.9	801.1	782.0	765.2	760.4	781.4	890.0	926.4	864.6	773.4
32.5°	881.6	879.7	874.4	855.2	835.0	823.9	837.5	939.8	1015.8	948.0	836.9
35°	971.7	968.0	956.8	930.2	910.3	901.7	908.0	1002.3	1119.1	1046.6	913.9
37.5°	1056.4	1061.9	1050.5	1013.7	987.9	984.9	991.9	1078.6	1230.4	1157.0	1002.5
40°	1141.5	1142.4	1132.1	1102.1	1075.5	1070.5	1088.3	1171.1	1361.7	1288.9	1110.1
42.5°	1229.4	1231.3	1213.9	1186.2	1166.7	1167.7	1187.9	1279.5	1512.4	1444.3	1234.0
45°	1333.6	1336.5	1317.4	1281.0	1263.3	1299.0	1290.6	1401.1	1677.6	1621.0	1376.3
47.5°	1442.6	1447.0	1432.5	1398.4	1376.3	1425.4	1393.3	1535.9	1855.4	1810.5	1532.5
50°	1502.1	1508.4	1522.5	1520.0	1515.3	1507.0	1507.8	1680.5	2038.8	2007.8	1693.1
52.5°	1470.1	1470.0	1521.6	1584.3	1651.2	1656.2	1647.4	1832.9	2210.1	2200.7	1844.3
55°	1324.1	1334.0	1412.2	1533.6	1716.4	1830.6	1856.6	2007.4	2378.3	2389.2	1997.9
57.5°	1080.9	1089.1	1194.6	1363.8	1628.5	1934.2	2154.1	2261.1	2566.5	2617.3	2202.3
60°	733.1	743.0	854.9	1058.1	1391.8	1876.4	2437.2	2713.9	2791.7	2907.4	2489.1
62.5°	430.8	439.8	531.0	667.5	979.9	1608.2	2561.5	3358.1	3149.5	3345.1	2926.5
65°	296.6	302.7	347.0	415.5	563.1	1083.2	2407.4	3802.8	3699.9	3887.3	3433.8
67.5°	238.6	237.9	273.0	319.7	362.5	558.5	1820.4	3752.5	4184.0	4262.2	3697.1
70°	196.6	195.8	219.7	258.3	289.7	314.5	991.6	3166.7	4085.4	4117.1	3454.6
72.5°	164.4	165.2	180.5	209.2	237.7	236.9	435.7	2227.7	3213.9	3433.4	2753.9
75°	138.8	139.2	149.3	169.6	192.9	190.8	236.3	1206.9	1868.2	2021.0	1526.5
77.5°	118.2	118.5	125.0	136.3	153.0	152.2	172.5	521.4	779.3	769.8	522.2
80°	105.4	105.4	108.4	110.5	119.7	116.3	127.9	250.5	329.4	304.2	208.4
82.5°	82.6	83.0	101.7	101.0	94.3	89.9	89.9	147.6	174.6	161.4	122.0
85°	46.5	46.3	65.6	79.2	83.0	63.3	62.7	82.6	95.0	83.7	59.1
87.5°	19.9	20.3	30.4	35.2	47.0	39.4	38.8	42.6	48.4	41.9	27.3
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°	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6	539.6
2.5°	539.8	534.8	523.9	510.3	498.1	490.0	482.8	472.3	472.8	465.6	460.2
5°	539.4	529.1	503.8	473.8	444.9	424.1	408.4	394.3	390.8	384.1	380.1
7.5°	539.8	522.9	480.5	432.5	396.7	370.4	357.0	349.5	347.8	345.5	345.7
10°	541.1	517.4	454.9	393.9	356.4	339.0	335.7	338.0	340.7	341.5	341.7
12.5°	544.2	512.4	426.8	359.5	331.2	325.8	331.4	339.2	344.4	346.8	346.6
15°	551.0	508.6	399.8	332.5	317.2	320.1	330.4	341.5	348.9	352.4	352.6
17.5°	558.5	503.0	372.1	311.8	306.9	314.1	327.0	340.0	349.1	353.0	353.7
20°	568.2	496.2	343.0	296.4	297.1	305.3	317.4	330.4	340.5	343.8	345.3
22.5°	581.1	488.7	317.6	283.7	286.0	292.3	301.7	313.0	321.8	323.3	324.7
25°	598.3	480.7	297.3	272.3	273.2	276.9	283.2	289.9	296.0	294.3	295.6
27.5°	621.4	473.8	282.2	261.8	260.0	260.8	264.0	266.2	269.4	264.6	265.2
30°	648.6	466.3	270.5	252.6	247.8	246.5	247.2	248.4	250.9	244.4	243.4
32.5°	680.1	457.4	259.7	244.5	237.9	235.2	235.6	238.6	248.2	244.2	242.1
35°	716.8	447.2	248.2	235.8	231.2	227.3	227.0	236.5	265.0	262.5	260.6
37.5°	759.8	437.1	236.7	225.8	226.2	222.0	220.6	231.5	268.3	258.5	257.2
40°	814.5	431.7	227.0	215.3	220.1	219.5	216.8	222.4	246.8	229.1	226.8
42.5°	882.2	432.5	219.7	204.0	212.8	218.9	214.7	214.9	223.7	210.3	208.2
45°	965.8	441.5	214.5	195.0	204.6	218.4	214.0	210.9	211.7	204.6	203.4
47.5°	1063.3	460.0	210.9	187.6	196.7	216.2	213.8	209.7	208.0	204.2	203.2
50°	1171.7	487.0	208.2	180.5	189.7	212.8	214.0	208.6	206.7	205.2	204.6
52.5°	1278.2	517.8	204.2	174.4	184.1	208.6	214.5	207.5	205.3	204.2	203.6
55°	1396.9	556.2	198.1	169.2	179.5	203.2	214.5	205.7	203.4	203.6	203.4
57.5°	1557.3	618.3	190.8	164.8	174.0	196.7	210.9	203.8	201.0	201.1	201.3
60°	1808.0	727.9	182.0	160.4	167.1	189.1	205.9	199.6	196.7	197.5	197.7
62.5°	2176.6	888.7	170.6	153.9	159.8	180.9	199.0	194.3	191.4	193.3	193.3
65°	2559.8	1030.6	156.4	145.7	152.2	171.9	190.4	187.6	184.7	189.1	188.9
67.5°	2662.9	998.8	142.3	136.7	144.5	161.9	180.1	178.6	177.1	184.7	184.3
70°	2365.5	801.9	129.3	127.5	136.1	151.2	169.0	169.0	168.1	173.8	172.5
72.5°	1802.3	568.6	116.8	117.8	126.6	139.6	157.0	158.3	156.8	159.7	158.5
75°	964.8	325.4	104.4	107.1	114.7	127.7	143.6	144.9	144.0	143.8	144.4
77.5°	320.6	159.1	91.4	95.6	102.3	115.5	129.6	131.7	129.4	129.1	128.9
80°	142.8	100.0	77.1	82.6	88.5	101.5	114.9	116.6	114.1	117.6	113.2
82.5°	91.8	65.8	61.8	67.9	73.6	87.6	100.2	100.6	98.3	114.1	97.3
85°	44.5	40.7	46.5	52.0	57.0	68.8	83.0	83.2	77.4	70.6	68.1
87.5°	22.2	23.7	31.0	35.9	38.4	47.2	60.4	59.3	56.8	51.6	47.6
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)