

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: P302883

Luminaire Tested: **GLNA-AF-01-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)  
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-T4W-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3930.2 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-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

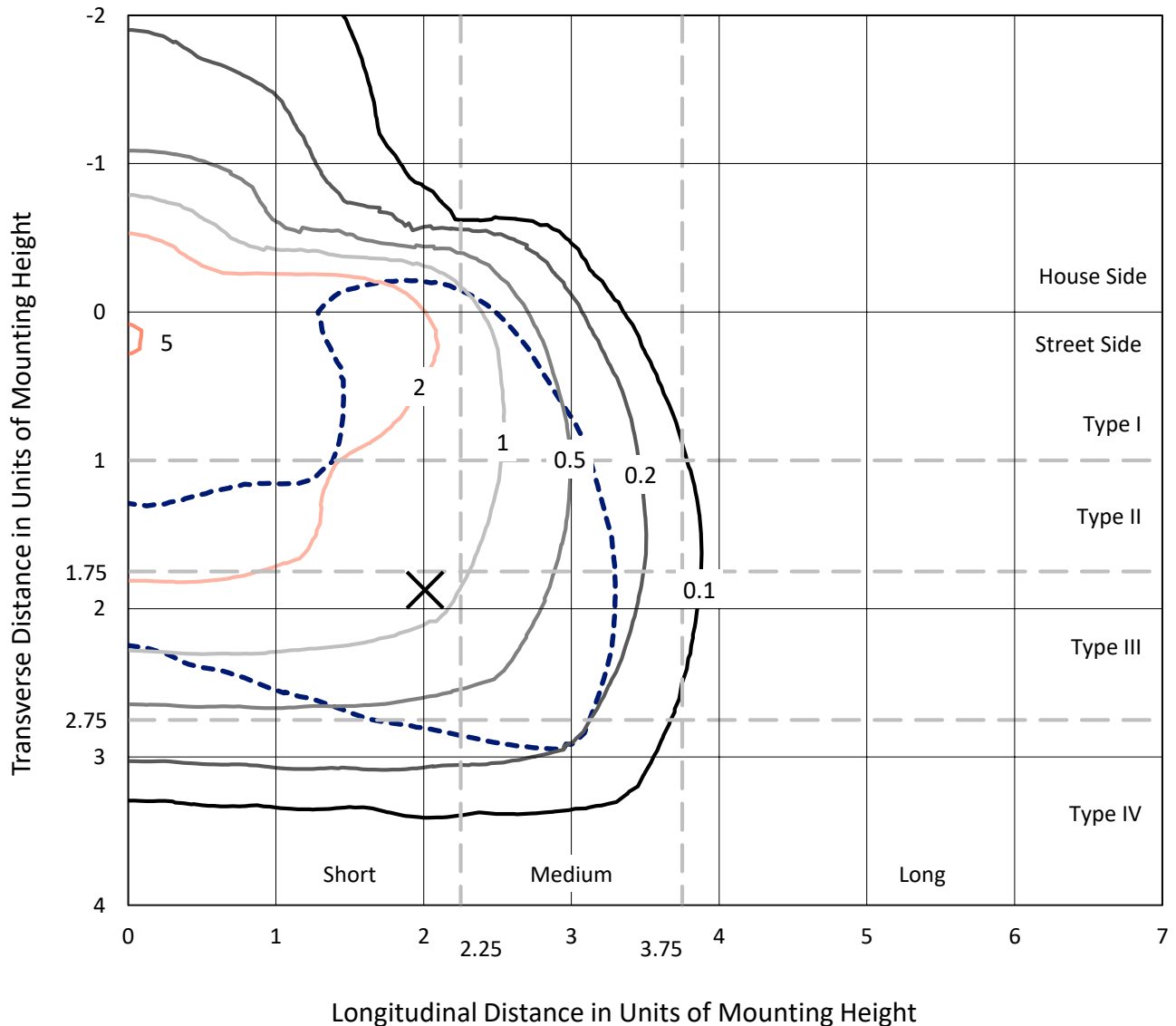


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### Iso-Footcandle Lines of Horizontal Illumination

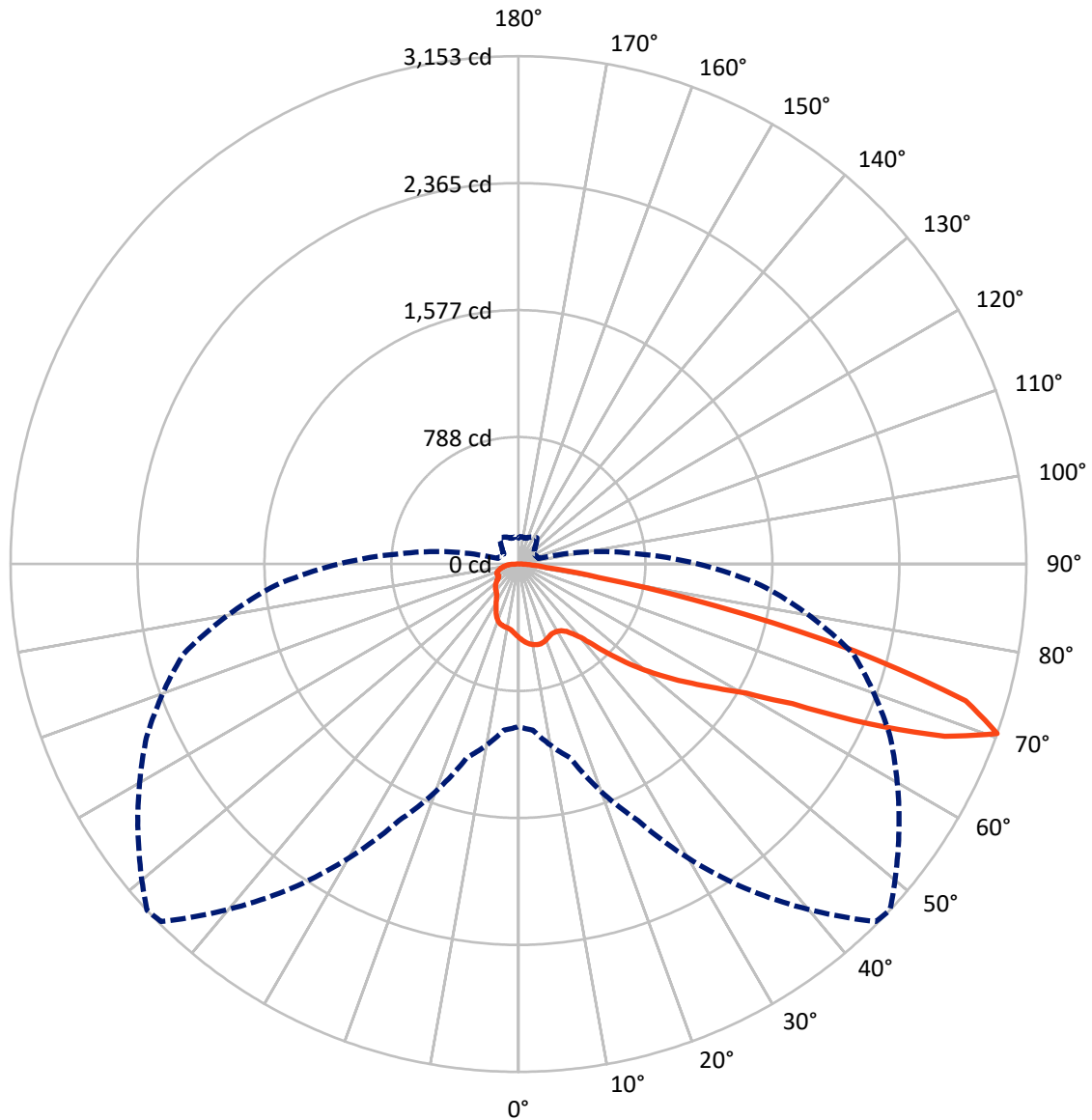
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	819.9	0.0	819.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	3110.3	0.0	3110.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	3930.2	0.0	3930.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	1.1
10°-20°	128.2	3.3
20°-30°	189.3	4.8
30°-40°	275.1	7.0
40°-50°	495.2	12.6
50°-60°	857.8	21.8
60°-70°	1224.4	31.2
70°-80°	628.5	16.0
80°-90°	88.0	2.2
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°	3930.2	100.0
0°-180°	3930.2	100.0



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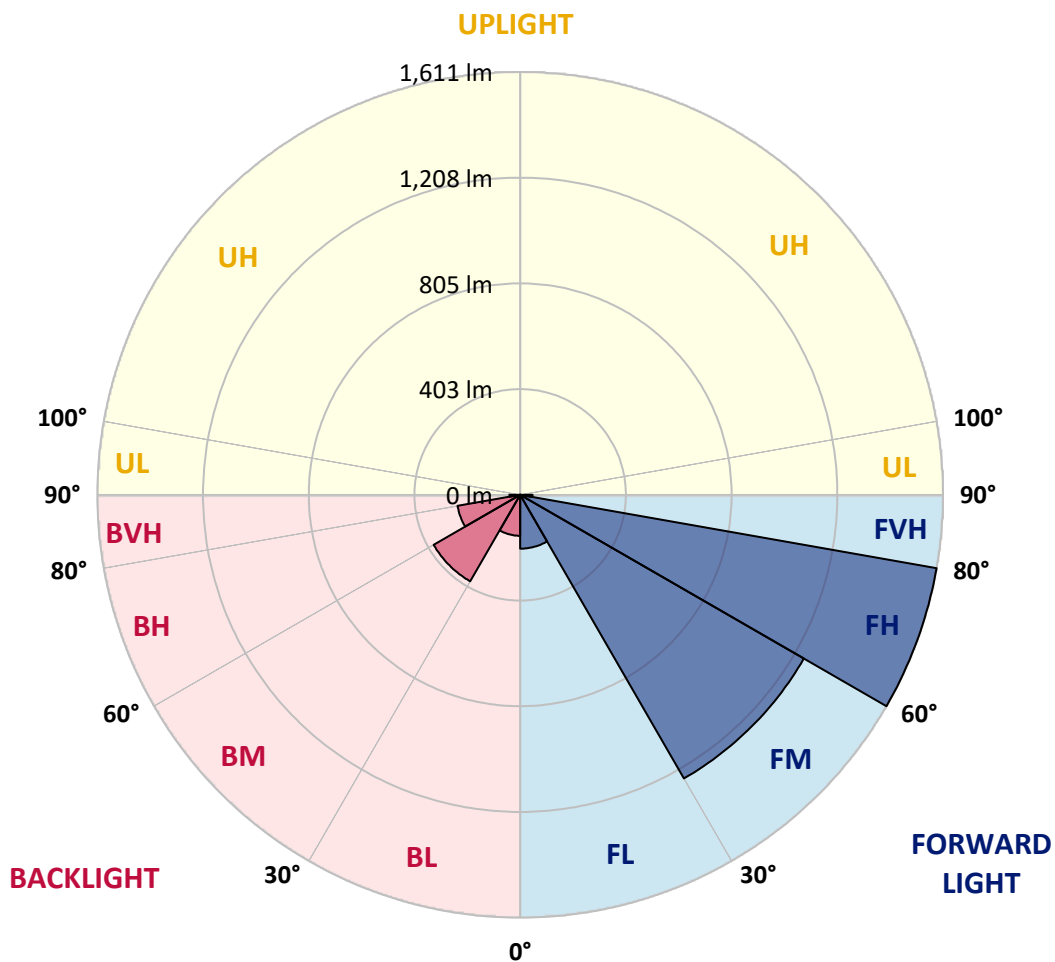
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.1	5.2			
FM	(30°-60°)	1247.5	31.7			
FH	(60°-80°)	1610.7	41.0			G1/1800
FVH	(80°-90°)	47.0	1.2			G1/100
BL	(0°-30°)	156.1	4.0	B1/500		
BM	(30°-60°)	380.6	9.7	B1/1000		
BH	(60°-80°)	242.2	6.2	B1/500		G1/500
BVH	(80°-90°)	41.0	1.0			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	482.8	481.9	481.5	480.7	479.8	474.9	474.0	470.6	465.8	460.8	455.6
5°	514.6	514.4	512.2	508.4	502.3	491.8	489.3	480.9	469.6	458.7	447.8
7.5°	542.4	540.7	536.7	529.0	518.4	504.0	500.6	488.9	473.4	458.5	443.8
10°	562.9	561.9	553.2	542.6	528.7	512.8	508.8	495.8	478.7	459.8	441.5
12.5°	574.6	572.7	562.5	549.9	533.3	517.8	513.7	500.6	481.5	459.8	438.2
15°	573.8	572.5	562.3	548.5	531.8	518.2	514.6	501.4	480.9	457.9	434.0
17.5°	558.5	559.1	550.5	536.9	523.1	512.8	509.5	497.4	477.0	454.1	429.1
20°	531.8	534.4	528.7	516.7	509.0	501.9	499.8	489.5	471.1	448.6	423.7
22.5°	505.0	507.4	505.2	495.0	493.9	489.7	488.5	481.1	466.0	445.2	420.5
25°	485.3	487.6	487.2	478.4	481.9	481.7	480.7	477.0	464.8	445.2	421.0
27.5°	480.0	480.7	480.0	471.9	476.7	480.5	479.8	479.1	468.3	450.7	428.3
30°	498.3	497.2	491.2	474.9	479.4	484.7	484.0	484.3	478.6	465.2	444.6
32.5°	571.5	566.3	547.6	501.9	490.2	493.1	493.5	499.8	500.8	487.6	469.8
35°	681.1	675.4	651.0	574.2	524.1	514.2	514.2	523.7	529.4	519.7	509.0
37.5°	797.1	790.8	777.8	674.4	595.2	550.7	549.7	556.4	564.6	567.0	569.6
40°	929.0	922.4	926.0	786.8	694.5	613.9	600.4	595.6	617.8	632.5	653.9
42.5°	1073.4	1070.3	1071.7	912.0	807.4	708.6	689.3	664.6	691.4	717.6	762.5
45°	1207.1	1209.7	1208.4	1046.1	933.3	824.1	803.6	755.8	782.0	826.9	900.2
47.5°	1324.1	1313.0	1330.2	1192.5	1074.2	953.4	928.1	864.1	890.6	946.1	1070.0
50°	1466.1	1464.6	1439.4	1388.0	1244.5	1083.2	1050.1	975.9	1017.2	1094.3	1284.0
52.5°	1615.5	1587.8	1564.6	1539.9	1425.3	1216.3	1175.7	1087.4	1166.0	1262.9	1544.8
55°	1646.1	1633.7	1662.3	1703.8	1599.4	1354.5	1307.3	1227.1	1333.5	1455.7	1845.5
57.5°	1711.5	1711.3	1770.6	1844.6	1778.8	1501.1	1453.5	1396.0	1521.8	1676.5	2164.8
60°	1755.7	1768.0	1878.2	2021.8	1954.9	1670.6	1626.7	1590.8	1736.0	1923.3	2462.3
62.5°	1778.8	1795.6	1945.9	2093.7	2203.8	1952.6	1908.8	1857.0	2019.3	2194.1	2636.3
65°	1682.6	1715.6	1935.4	2155.9	2421.8	2409.7	2390.0	2299.0	2373.6	2408.0	2573.4
67.5°	1416.4	1450.3	1706.1	2097.9	2577.4	2850.7	2854.9	2699.4	2591.6	2426.4	2163.7
70°	1009.2	1035.7	1247.4	1758.9	2458.9	3138.8	3153.2	2883.9	2548.2	2151.8	1511.7
72.5°	479.1	495.4	695.8	1144.8	1951.2	2875.9	2903.7	2648.4	2166.7	1593.1	824.6
75°	176.1	181.0	235.2	487.0	1131.7	2120.9	2153.6	1898.5	1436.3	793.1	314.1
77.5°	105.5	108.8	132.0	205.6	445.2	1212.3	1260.6	1032.5	627.7	295.2	154.5
80°	73.8	76.1	94.6	127.9	210.3	462.0	505.0	421.4	250.1	186.8	112.4
82.5°	49.9	51.1	66.6	86.4	139.8	165.0	178.0	187.4	168.7	139.0	71.3
85°	32.7	33.8	45.2	57.0	88.9	85.3	87.2	110.3	123.1	94.4	39.6
87.5°	18.7	19.5	27.2	30.4	43.6	36.1	36.5	58.1	78.8	63.7	24.1
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°	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0	456.0
2.5°	454.3	451.8	446.3	442.8	439.6	438.8	437.5	437.3	437.1	437.1	436.5
5°	444.1	439.9	431.4	426.5	422.5	422.2	422.0	422.9	423.3	423.7	423.1
7.5°	437.7	431.9	421.2	414.4	409.6	408.4	410.4	414.7	417.6	418.7	418.2
10°	433.7	426.5	414.2	406.7	402.7	402.1	404.6	409.8	415.7	418.0	417.8
12.5°	429.1	421.0	407.8	400.0	397.7	398.9	402.1	406.9	413.0	416.6	416.8
15°	424.5	415.1	401.5	394.7	393.7	395.2	398.3	401.9	406.7	410.4	410.7
17.5°	418.9	409.1	395.6	388.5	387.7	388.5	388.7	390.6	393.7	397.1	398.1
20°	413.0	403.1	388.9	381.8	378.4	375.4	371.9	372.3	373.2	376.7	377.5
22.5°	408.8	398.9	383.7	374.0	364.8	355.6	348.8	347.8	348.2	351.0	352.0
25°	409.1	398.7	382.4	365.6	345.5	330.8	321.6	320.1	319.9	322.0	323.4
27.5°	416.6	406.1	387.4	356.9	324.5	302.7	292.9	291.8	290.3	290.8	292.4
30°	433.3	423.5	399.4	348.2	301.7	275.2	265.0	263.9	261.8	260.8	261.9
32.5°	460.4	452.4	417.0	339.7	279.0	251.6	241.3	238.8	237.5	236.4	237.3
35°	505.5	502.1	440.5	330.6	258.9	233.4	224.1	220.3	218.4	220.5	222.0
37.5°	576.3	578.2	471.3	316.2	243.4	221.4	213.6	209.2	206.3	208.0	209.7
40°	676.5	677.8	505.4	296.0	230.0	214.3	205.9	201.9	197.9	194.8	194.6
42.5°	808.0	794.5	538.8	274.0	214.5	209.9	200.6	195.6	189.5	181.0	179.3
45°	964.0	916.5	564.2	248.7	197.1	204.6	194.6	187.8	178.2	169.0	168.1
47.5°	1143.8	1047.4	576.7	222.6	180.9	196.7	187.4	176.5	164.4	159.8	159.3
50°	1363.3	1202.9	582.6	197.1	166.8	186.4	176.9	164.0	153.9	153.0	152.4
52.5°	1613.2	1389.9	584.5	176.3	155.1	173.0	168.3	155.8	147.8	148.6	148.6
55°	1874.8	1583.0	558.5	161.2	144.3	159.3	162.5	152.6	145.9	149.0	150.1
57.5°	2114.9	1754.1	476.7	149.5	134.2	148.8	160.4	155.6	151.1	163.5	164.2
60°	2299.2	1855.2	356.0	139.0	126.8	145.1	166.0	167.3	168.5	198.1	202.1
62.5°	2337.8	1821.6	244.7	130.8	123.3	148.2	176.1	176.3	174.9	195.6	198.1
65°	2160.6	1608.8	178.0	126.2	120.5	153.7	184.7	180.7	171.9	187.6	183.0
67.5°	1715.8	1212.1	148.2	122.8	116.3	153.4	193.9	184.7	170.2	183.8	176.3
70°	1113.8	732.9	132.0	119.9	111.3	146.1	199.2	184.3	165.2	170.9	162.1
72.5°	543.4	327.7	121.0	115.7	106.1	136.0	199.0	180.9	160.0	159.6	154.9
75°	212.6	150.1	111.1	109.4	97.3	124.5	193.7	175.9	153.9	147.8	146.1
77.5°	124.5	107.1	98.5	100.0	86.8	113.0	185.9	167.3	145.5	138.2	136.3
80°	90.6	80.1	84.0	86.4	74.2	101.5	175.3	156.8	136.1	139.8	137.1
82.5°	58.1	51.6	68.1	70.6	61.8	89.9	163.8	145.7	122.9	111.6	109.0
85°	29.7	32.7	50.7	53.7	47.6	73.8	149.9	131.0	108.0	92.9	94.4
87.5°	16.6	22.4	32.3	36.1	33.7	56.8	121.6	108.0	88.1	71.7	63.1
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)