

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: P194079

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T4FT-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5612 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

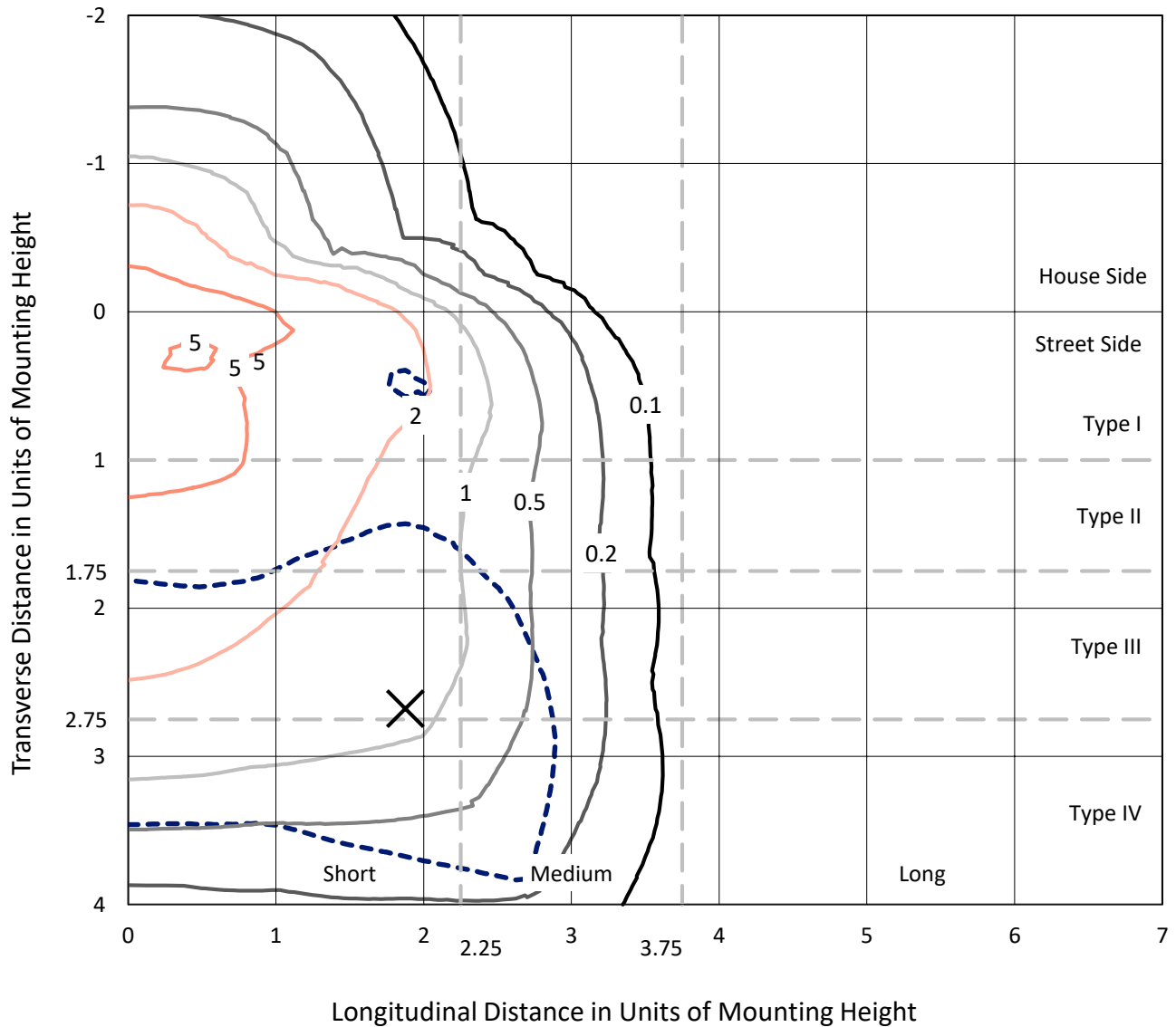


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### Iso-Footcandle Lines of Horizontal Illumination

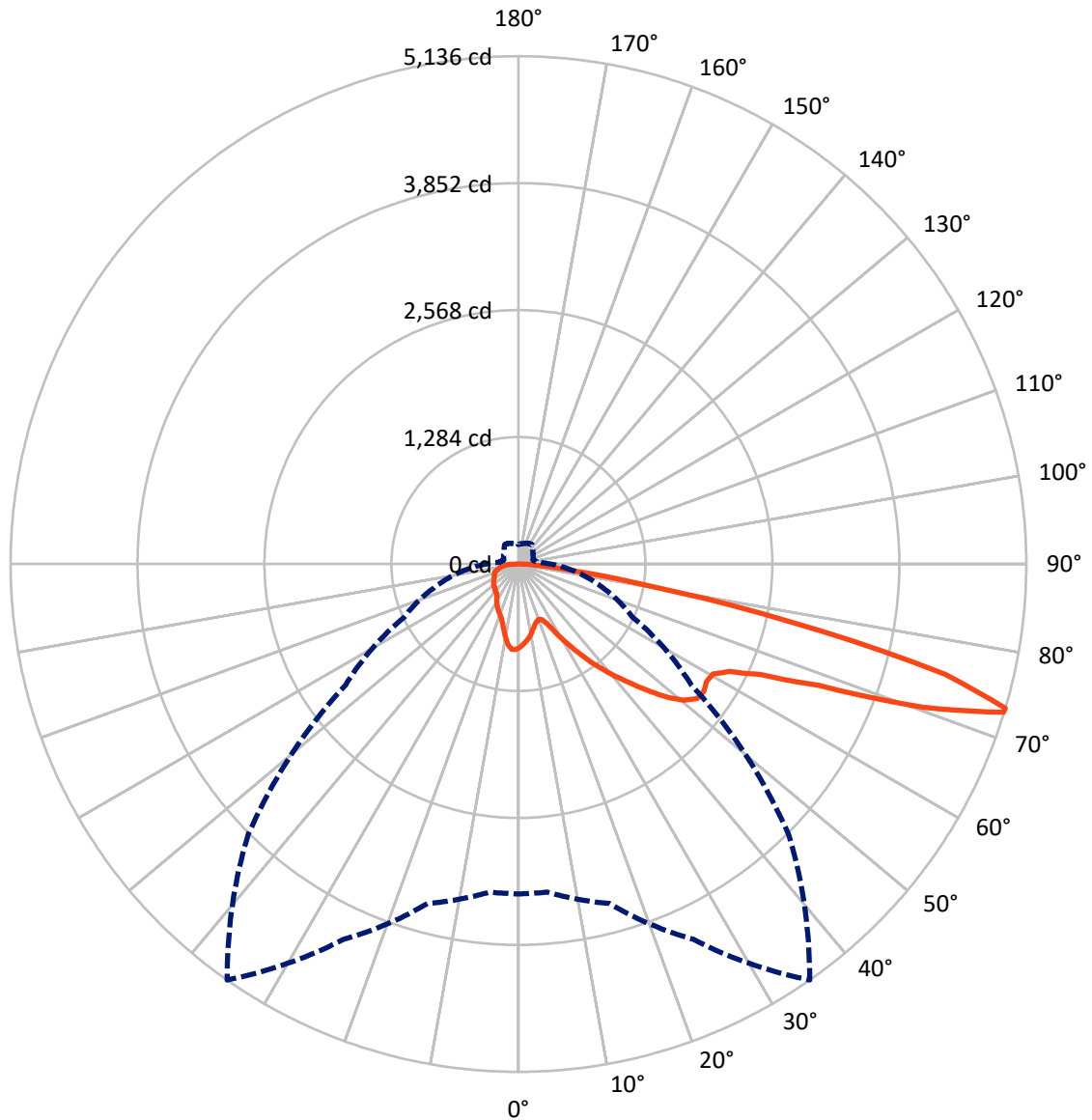
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1070.4	0.0	1070.4
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	4541.6	0.0	4541.6
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	5612.0	0.0	5612.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.7	1.4
10°-20°	191.4	3.4
20°-30°	309.4	5.5
30°-40°	518.8	9.2
40°-50°	799.7	14.3
50°-60°	1072.9	19.1
60°-70°	1429.4	25.5
70°-80°	1090.2	19.4
80°-90°	123.6	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°	5612.0	100.0
0°-180°	5612.0	100.0



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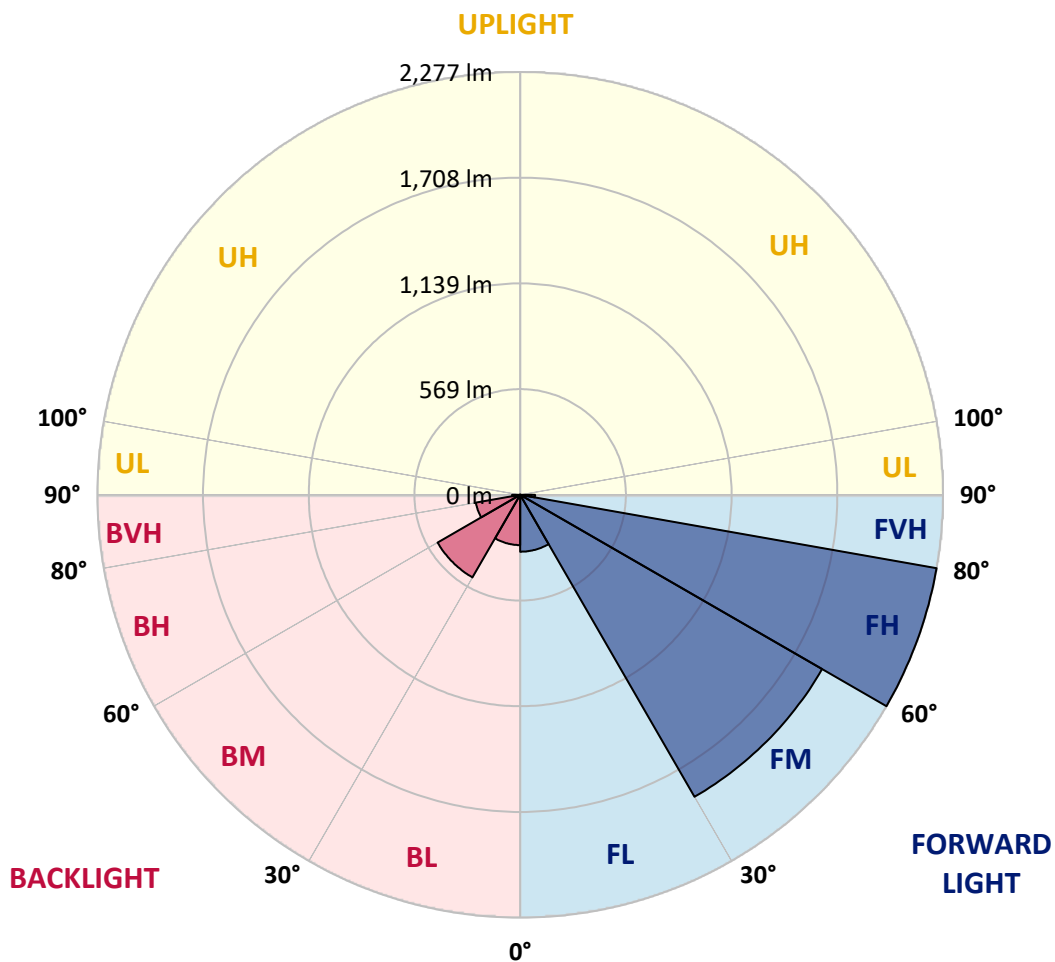
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.6	5.5			
FM	(30°-60°)	1877.8	33.5			
FH	(60°-80°)	2277.4	40.6			G2/5000
FVH	(80°-90°)	79.9	1.4			G1/100
BL	(0°-30°)	270.9	4.8	B1/500		
BM	(30°-60°)	513.7	9.2	B1/1000		
BH	(60°-80°)	242.2	4.3	B1/500		G1/500
BVH	(80°-90°)	43.7	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°	55°	65°	75°	85°	90°
0°	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0
2.5°	813.6	815.2	813.3	815.8	819.8	824.1	827.1	831.4	836.2	843.0	844.6
5°	775.3	777.8	777.8	782.1	789.9	796.9	803.4	810.4	820.6	832.2	836.8
7.5°	733.3	734.6	737.1	743.5	754.9	764.8	774.0	785.3	799.3	814.7	822.8
10°	682.6	684.5	688.3	697.5	712.8	726.6	739.8	755.4	773.2	792.3	802.6
12.5°	646.8	646.3	647.9	654.6	668.1	684.8	703.9	723.9	745.7	768.1	780.5
15°	634.7	631.7	625.5	623.9	631.2	647.9	670.0	694.5	720.6	747.6	762.9
17.5°	642.2	637.1	620.1	607.7	606.6	619.3	642.7	670.2	700.4	733.3	752.4
20°	689.6	677.5	635.7	606.9	596.9	603.1	623.6	652.7	688.3	732.0	756.5
22.5°	803.1	785.3	696.6	643.0	609.3	601.8	617.1	648.1	689.6	748.7	779.9
25°	968.3	943.0	801.2	733.0	663.5	623.3	626.8	658.6	708.8	787.5	825.2
27.5°	1098.7	1082.3	937.8	860.0	762.1	681.6	658.4	685.1	747.9	851.1	889.6
30°	1176.3	1166.4	1083.9	1003.9	888.0	774.3	718.7	734.6	809.0	939.2	971.0
32.5°	1266.4	1260.4	1220.0	1146.4	1023.8	896.1	814.4	808.8	891.0	1045.1	1059.7
35°	1359.6	1357.7	1334.0	1281.2	1169.6	1056.7	941.3	903.1	980.2	1155.1	1145.9
37.5°	1446.4	1443.1	1429.4	1398.7	1322.1	1229.2	1070.7	999.8	1076.4	1260.2	1219.5
40°	1606.2	1580.9	1533.7	1510.5	1476.3	1374.4	1173.4	1090.1	1176.1	1360.4	1283.1
42.5°	1801.0	1759.8	1672.0	1640.2	1635.3	1489.0	1243.5	1177.7	1276.6	1459.9	1345.6
45°	1954.4	1915.6	1839.8	1799.7	1817.5	1592.7	1313.8	1271.2	1380.1	1564.2	1410.0
47.5°	2118.0	2057.1	1956.8	1968.9	2007.7	1690.8	1385.5	1371.7	1493.5	1680.8	1490.0
50°	2123.9	2077.3	2033.3	2105.8	2166.2	1781.1	1475.2	1477.1	1632.3	1827.7	1596.5
52.5°	2000.7	1990.8	2060.6	2174.6	2261.6	1852.5	1577.4	1586.0	1809.9	1996.4	1713.5
55°	1957.6	1946.3	2026.9	2150.6	2274.5	1911.5	1688.1	1703.8	2024.7	2174.3	1827.5
57.5°	2062.7	2037.7	2043.0	2139.3	2243.0	1976.2	1808.9	1840.4	2258.1	2329.8	1900.8
60°	2356.5	2302.8	2201.0	2198.5	2260.0	2073.2	1948.5	1987.0	2500.7	2404.2	1872.2
62.5°	2768.5	2714.9	2524.1	2399.9	2390.7	2233.3	2119.9	2130.1	2640.8	2303.4	1697.8
65°	3214.5	3166.6	2953.4	2778.0	2693.3	2498.5	2319.0	2194.0	2595.0	2026.1	1392.8
67.5°	3756.0	3704.5	3521.2	3359.3	3277.9	2926.5	2458.9	2132.8	2304.2	1569.5	1001.2
70°	4134.6	4082.1	4009.8	4141.1	4340.2	3543.9	2476.9	1884.0	1721.0	1043.2	602.6
72.5°	3640.6	3616.1	3747.9	4300.6	5130.1	3918.5	2239.0	1371.7	999.6	553.8	348.7
73°	3335.5	3330.2	3554.9	4188.8	5135.8	3860.8	2134.7	1275.0	857.3	489.9	318.8
75°	1506.2	1549.6	2042.2	3199.5	4462.0	3181.4	1502.4	731.4	484.3	338.5	240.7
77.5°	361.9	377.0	639.0	1519.4	2817.8	1895.9	680.7	361.7	309.7	239.0	175.7
80°	154.2	159.3	246.0	561.4	1326.7	763.5	313.7	242.3	214.2	166.8	123.2
82.5°	85.7	91.1	139.6	254.7	535.5	260.3	191.3	168.7	140.9	100.5	80.0
85°	48.5	51.5	81.7	142.3	226.9	104.6	114.5	112.1	79.5	51.7	39.3
87.5°	22.9	24.8	39.3	66.0	88.9	41.0	58.2	64.1	49.9	31.5	20.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0	847.0
2.5°	846.5	851.3	857.0	860.0	862.7	865.9	869.1	869.1	869.7	869.9
5°	840.6	850.5	859.4	863.2	864.0	864.0	863.2	858.9	855.1	856.7
7.5°	828.2	842.7	850.3	848.9	838.7	826.8	816.8	804.7	798.5	797.4
10°	810.4	827.1	828.4	815.0	789.6	764.3	743.3	722.8	713.1	710.7
12.5°	790.7	806.1	797.4	769.7	729.0	692.1	665.4	644.6	635.5	633.0
15°	774.8	785.3	763.5	719.8	668.6	629.5	607.4	592.1	585.6	583.7
17.5°	766.4	768.6	728.7	669.7	615.3	582.6	568.9	561.6	559.2	557.9
20°	770.5	755.4	695.6	623.1	571.6	548.7	545.5	543.6	543.0	542.2
22.5°	790.7	751.4	665.1	578.9	533.3	523.4	526.1	525.8	525.2	524.7
25°	826.8	754.9	635.5	536.8	501.3	499.1	504.0	504.0	501.8	501.8
27.5°	874.5	762.1	602.3	497.0	472.2	472.4	476.2	475.1	472.7	471.1
30°	932.7	766.7	563.5	461.1	444.9	443.9	444.9	440.4	433.1	432.5
32.5°	992.3	761.1	518.5	429.3	416.1	413.7	412.9	406.4	398.0	395.6
35°	1046.2	740.3	472.7	404.0	388.6	383.2	387.0	384.8	377.3	375.4
37.5°	1085.5	701.8	431.5	381.6	368.9	367.6	370.0	370.8	361.9	360.0
40°	1111.9	649.5	396.2	362.7	365.2	360.0	352.0	346.3	343.6	342.8
42.5°	1133.2	595.0	366.5	353.8	366.0	351.2	333.6	324.5	329.3	331.5
45°	1157.8	542.0	341.7	342.8	361.9	340.9	321.0	312.1	314.0	314.5
47.5°	1191.4	477.3	315.0	325.0	348.5	333.9	313.2	300.5	291.6	287.6
50°	1238.1	400.7	287.3	305.1	335.3	328.8	301.0	287.6	271.1	267.3
52.5°	1270.4	329.3	264.4	288.4	323.4	318.5	291.3	273.8	256.6	253.3
55°	1252.9	273.5	244.4	269.8	307.8	305.9	283.2	259.8	246.3	243.6
57.5°	1165.3	238.2	229.1	252.2	288.6	295.1	272.5	247.9	238.2	236.3
60°	998.2	216.1	219.4	240.4	273.0	284.3	261.7	241.5	235.0	233.7
62.5°	774.5	201.3	212.1	231.8	260.9	276.8	255.8	240.7	238.2	236.6
65°	554.9	189.5	204.3	223.1	249.8	269.8	253.6	239.6	240.1	238.8
67.5°	377.0	178.9	194.8	213.4	239.0	263.6	250.6	235.8	242.5	240.9
70°	263.8	168.7	183.8	201.0	225.6	254.9	245.2	230.1	229.6	223.1
72.5°	205.9	155.2	168.7	183.8	208.3	242.8	234.5	217.5	208.6	201.9
73°	196.5	152.0	164.9	180.0	204.5	239.9	231.5	214.0	204.0	197.8
75°	162.5	138.0	149.8	163.3	188.4	225.8	216.9	198.1	185.4	181.6
77.5°	127.7	118.0	129.4	141.5	166.0	205.4	195.4	177.3	170.3	167.1
80°	94.6	97.8	107.8	118.6	143.9	183.5	174.6	156.6	187.8	180.0
82.5°	66.6	74.1	83.3	93.0	120.7	162.2	151.5	132.9	137.4	114.3
85°	39.3	48.5	57.1	65.5	87.0	134.5	125.0	105.9	86.8	82.7
87.5°	22.9	26.9	29.4	38.0	59.8	101.3	88.1	78.4	45.0	30.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)