

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: P450237

Luminaire Tested: **GALN-SA1A-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4238 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 33  
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

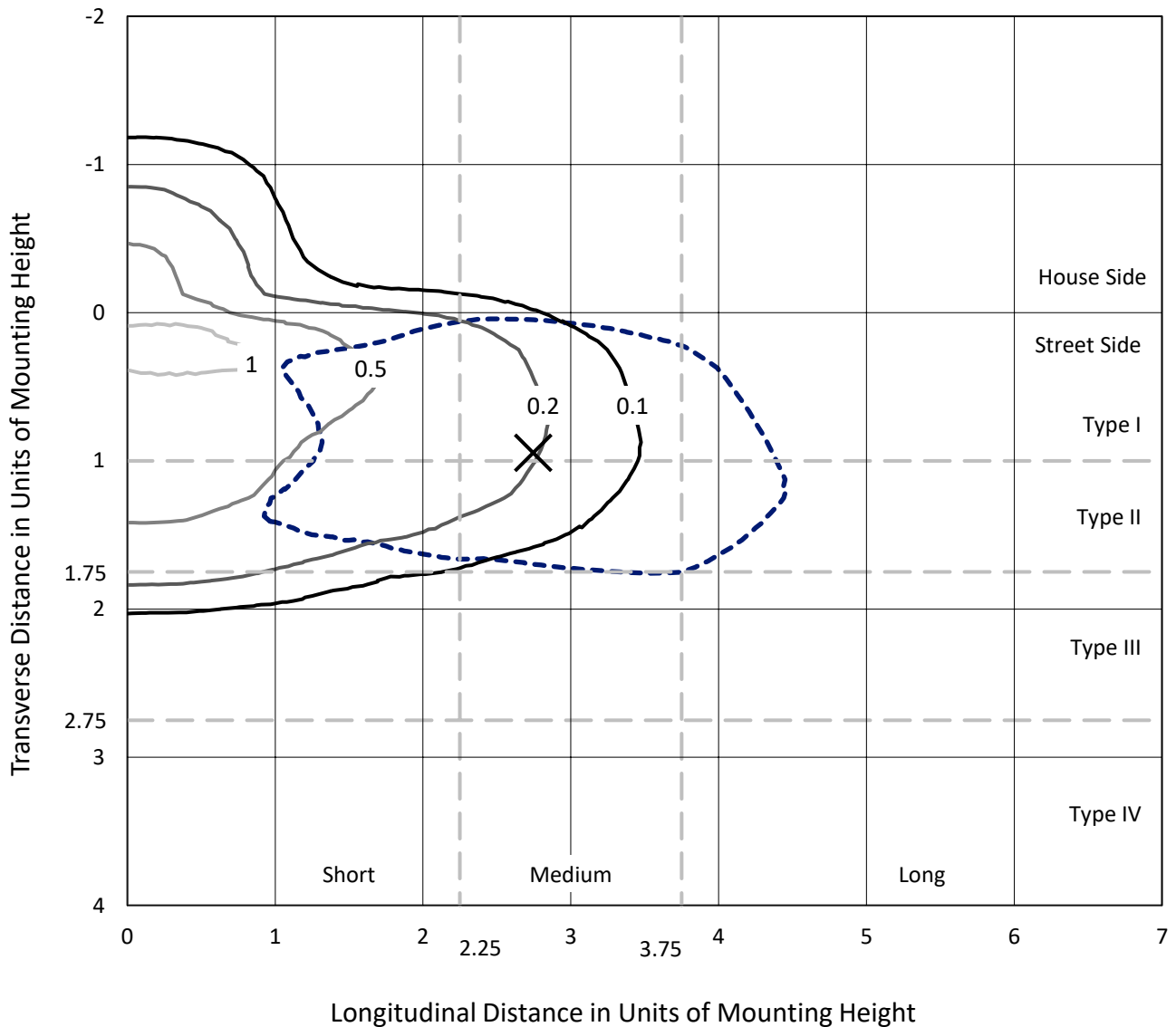




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### Iso-Footcandle Lines of Horizontal Illumination

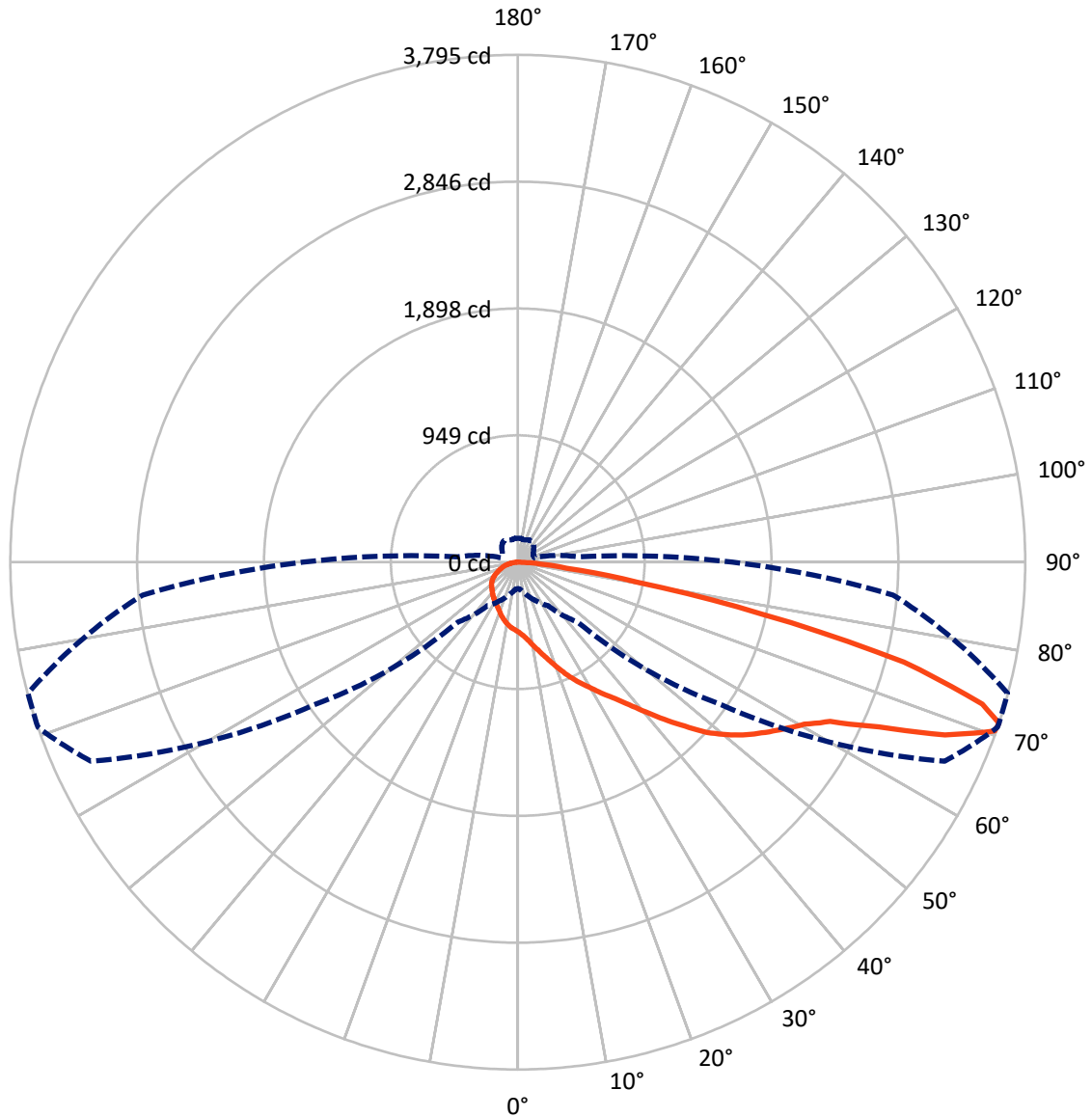
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	762.2	0.0	762.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	3475.8	0.0	3475.8
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	4238.0	0.0	4238.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.2	1.2
10°-20°	169.7	4.0
20°-30°	296.5	7.0
30°-40°	441.0	10.4
40°-50°	649.8	15.3
50°-60°	909.7	21.5
60°-70°	1017.5	24.0
70°-80°	621.5	14.7
80°-90°	80.0	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°	4238.0	100.0
0°-180°	4238.0	100.0



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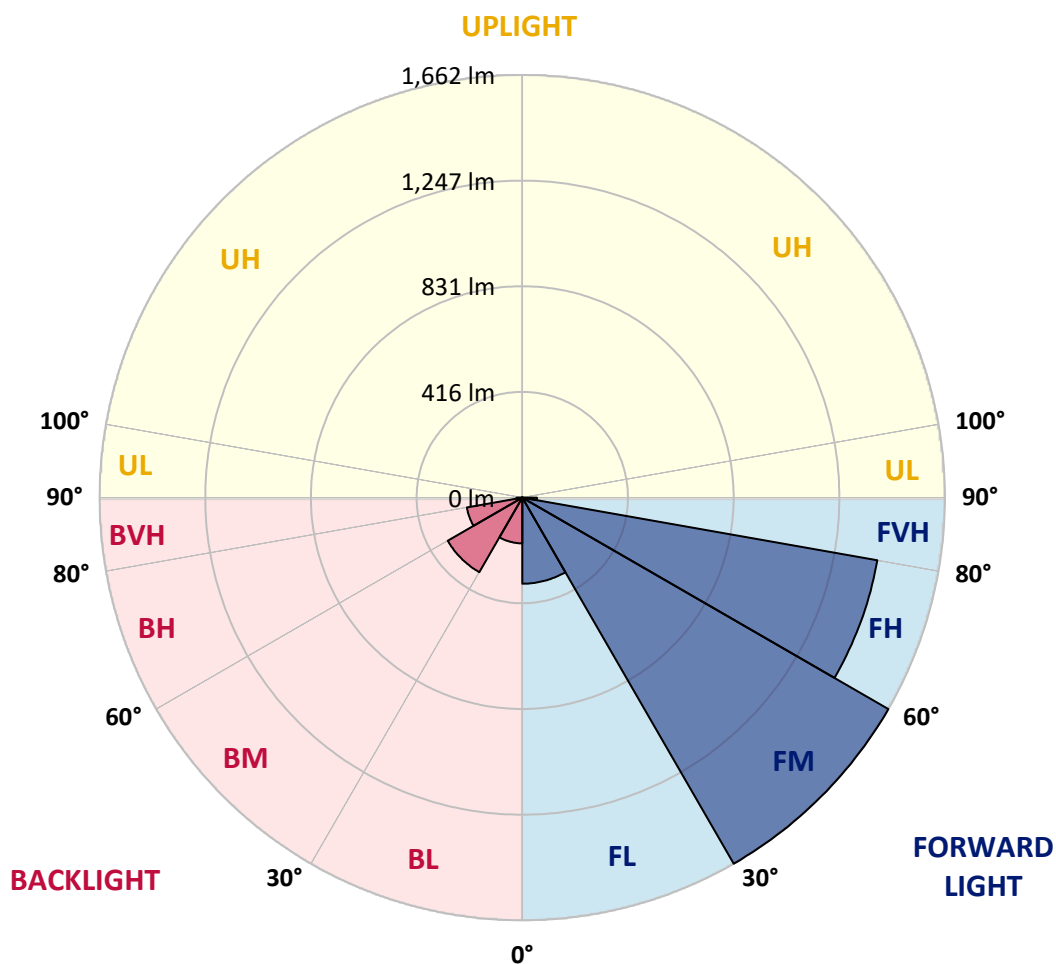
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.6	8.0			
FM (30°-60°)	1662.1	39.2			
FH (60°-80°)	1417.6	33.4			G1/1800
FVH (80°-90°)	57.5	1.4			G1/100
BL (0°-30°)	179.8	4.2	B1/500		
BM (30°-60°)	338.5	8.0	B1/1000		
BH (60°-80°)	221.5	5.2	B1/500		G1/500
BVH (80°-90°)	22.4	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-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	577.4	574.6	574.9	570.9	565.8	560.2	552.3	545.3	539.7	536.4	526.9
5°	639.9	637.1	633.6	624.9	621.2	607.5	590.0	574.2	562.1	555.3	536.2
7.5°	690.4	689.7	688.8	683.9	674.3	655.2	640.3	612.8	594.9	582.1	549.5
10°	721.6	722.8	723.5	724.4	720.5	710.4	689.9	655.2	632.4	616.1	566.7
12.5°	737.5	738.6	742.6	751.2	756.6	755.4	738.6	704.6	673.2	651.7	585.1
15°	747.2	749.1	756.1	767.5	785.4	796.9	788.7	757.3	722.8	697.4	607.0
17.5°	758.0	760.0	767.7	784.0	807.6	832.3	841.1	814.1	776.6	746.3	631.5
20°	764.0	766.8	777.8	799.2	826.7	862.5	891.9	877.7	836.7	803.1	659.7
22.5°	773.8	776.1	785.4	808.3	841.1	886.1	942.7	939.6	903.5	860.2	690.6
25°	800.3	804.1	808.7	822.5	854.2	910.1	984.8	1005.8	968.3	919.8	719.1
27.5°	850.4	853.5	853.2	855.1	873.0	930.8	1021.4	1071.2	1032.6	980.2	746.5
30°	907.5	908.7	909.6	905.4	909.4	952.0	1054.9	1136.0	1097.3	1042.1	770.5
32.5°	976.9	979.2	971.3	960.6	957.3	983.4	1082.7	1200.8	1174.0	1105.0	794.3
35°	1058.9	1065.0	1048.9	1030.0	1016.7	1028.6	1119.9	1266.9	1252.5	1185.4	825.7
37.5°	1152.5	1160.0	1145.1	1108.0	1089.2	1092.4	1168.6	1348.7	1351.7	1276.9	872.6
40°	1229.2	1239.0	1239.4	1187.0	1158.4	1162.1	1230.3	1436.7	1471.4	1390.1	927.8
42.5°	1279.7	1289.3	1299.3	1268.5	1238.5	1259.7	1302.3	1532.2	1606.0	1527.5	1004.9
45°	1335.2	1343.8	1349.4	1335.4	1318.6	1373.6	1389.2	1633.8	1749.5	1681.1	1089.2
47.5°	1399.4	1409.0	1414.3	1401.1	1394.8	1473.5	1482.8	1728.6	1902.8	1830.1	1182.3
50°	1485.2	1492.4	1489.6	1481.2	1479.8	1550.1	1572.7	1817.3	2029.3	1990.6	1279.0
52.5°	1591.8	1600.5	1603.5	1591.6	1586.2	1604.9	1645.2	1898.1	2144.3	2128.5	1382.2
55°	1656.4	1670.1	1716.2	1734.9	1747.7	1675.7	1723.2	1987.4	2247.5	2273.9	1493.1
57.5°	1573.7	1591.4	1694.6	1787.7	1908.2	1852.7	1833.9	2080.5	2350.7	2414.8	1625.8
60°	1372.0	1375.9	1508.9	1680.6	1922.8	2080.3	2064.7	2228.7	2462.5	2556.9	1800.8
62.5°	951.7	960.1	1117.4	1391.3	1741.6	2162.3	2457.4	2484.4	2622.8	2769.5	2057.2
65°	490.8	479.8	623.1	874.4	1313.0	1967.6	2775.6	2954.7	2970.3	3102.2	2418.3
67.5°	302.1	307.0	374.1	510.6	776.4	1430.0	2742.3	3529.3	3447.1	3510.5	2753.5
70°	226.9	232.9	279.0	349.4	473.3	817.6	2205.4	3668.6	3783.5	3767.2	2855.5
71°	197.3	203.6	251.6	317.9	397.6	631.0	1858.1	3522.8	3795.1	3792.3	2817.0
72.5°	168.2	172.1	209.6	269.3	335.2	442.3	1395.9	3159.5	3633.2	3726.2	2679.9
75°	132.1	135.1	151.9	205.4	263.9	271.6	749.1	2368.7	2984.1	3161.1	2231.0
77.5°	107.6	109.7	118.3	152.6	203.6	192.4	393.0	1541.8	1869.5	2047.7	1314.2
80°	85.5	87.8	92.9	103.4	152.6	137.2	187.5	781.2	903.1	901.2	524.6
82.5°	66.4	67.1	73.1	75.9	104.4	97.4	101.6	330.8	366.4	378.5	189.4
85°	41.9	44.0	64.8	58.2	62.4	57.1	50.1	131.4	161.9	159.6	75.7
87.5°	12.8	13.5	21.9	24.7	27.7	24.9	18.4	38.7	47.3	51.2	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°	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1	520.1
2.5°	523.2	520.6	511.5	504.1	497.1	489.4	482.9	481.0	479.4	478.7	478.4
5°	528.1	520.4	502.4	487.8	476.1	465.4	458.6	455.6	452.6	452.6	453.5
7.5°	535.0	521.1	493.3	471.4	456.8	446.8	441.9	441.4	442.1	442.8	443.0
10°	542.7	520.6	480.1	452.8	439.8	435.1	435.3	439.3	443.0	445.8	446.3
12.5°	550.2	517.8	464.5	435.3	427.0	427.9	434.4	443.3	450.5	454.4	454.7
15°	558.6	513.4	445.6	418.8	416.0	423.2	435.3	448.9	459.8	466.3	467.0
17.5°	565.6	505.9	425.8	402.7	406.2	419.5	436.3	453.7	467.0	475.2	476.6
20°	573.5	496.4	405.3	387.4	397.4	415.3	434.4	453.3	467.0	474.9	476.8
22.5°	579.8	482.9	385.7	374.8	389.5	410.2	428.1	443.3	454.4	458.6	461.4
25°	582.3	465.9	367.3	364.5	383.2	401.8	413.9	422.5	426.0	425.6	426.7
27.5°	580.9	446.3	351.5	356.4	375.2	388.8	394.8	394.1	387.8	382.0	384.8
30°	575.1	423.0	338.2	348.0	365.0	372.5	371.5	362.4	350.6	339.6	340.3
32.5°	564.6	397.8	325.9	338.4	350.6	353.8	347.5	335.7	318.6	304.4	302.3
35°	555.8	373.9	314.9	327.5	336.1	334.5	328.4	313.1	297.7	285.1	283.0
37.5°	554.4	353.4	304.4	315.2	320.0	317.7	310.3	297.2	291.6	282.1	280.9
40°	561.8	338.9	293.7	302.1	304.4	302.6	294.4	287.0	292.1	289.8	289.8
42.5°	582.1	331.2	284.2	289.1	290.9	292.3	286.5	280.2	286.5	275.8	272.3
45°	614.2	331.5	275.6	276.3	281.8	286.7	282.8	273.5	270.2	248.8	244.6
47.5°	661.5	339.4	268.6	264.1	274.2	282.3	276.7	263.2	248.8	234.6	232.0
50°	716.7	353.6	262.3	251.6	263.9	276.7	272.5	256.7	241.8	233.2	231.5
52.5°	778.0	371.5	254.6	237.6	251.3	274.2	273.5	255.8	235.3	229.4	228.0
55°	853.7	389.2	245.0	221.3	240.2	272.1	270.9	248.1	233.9	229.7	229.2
57.5°	941.7	414.8	231.3	204.7	227.3	263.4	260.9	243.4	229.2	226.2	225.9
60°	1083.6	454.7	211.7	189.6	214.3	248.3	251.6	235.5	221.7	221.0	220.8
62.5°	1270.2	510.6	191.5	174.0	199.2	228.7	238.1	224.8	213.8	217.3	217.8
65°	1527.8	557.6	170.5	160.7	182.4	209.9	225.2	214.8	205.0	211.7	211.7
67.5°	1695.7	558.6	151.4	147.0	165.4	194.0	211.7	202.9	193.6	205.0	205.4
70°	1660.8	489.4	135.6	132.5	148.8	177.0	196.8	189.8	179.1	189.4	185.6
71°	1604.4	451.0	129.3	126.9	142.3	168.9	189.8	184.0	173.3	180.1	178.0
72.5°	1514.5	391.6	119.0	119.5	132.5	158.6	180.1	174.0	163.3	167.0	166.3
75°	1280.2	341.9	101.8	103.9	113.9	141.2	160.5	155.8	144.9	144.9	144.2
77.5°	800.3	239.0	84.6	85.7	96.7	120.9	137.9	133.9	123.5	120.0	119.0
80°	298.6	123.5	66.2	67.5	74.3	95.3	114.1	110.4	99.7	95.7	92.0
82.5°	113.0	62.0	48.7	47.5	54.7	72.7	89.4	85.0	76.6	67.1	64.3
85°	42.6	30.7	29.8	28.9	32.1	43.1	55.4	54.5	45.7	38.9	38.2
87.5°	11.2	10.0	11.6	8.6	9.1	8.2	8.4	3.5	1.6	0.7	0.5
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)