

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: P651695

Luminaire Tested: **GALN-SA1A-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651695  
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-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3914 lumens  
Efficiency: N/A  
Efficacy: 118.6 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

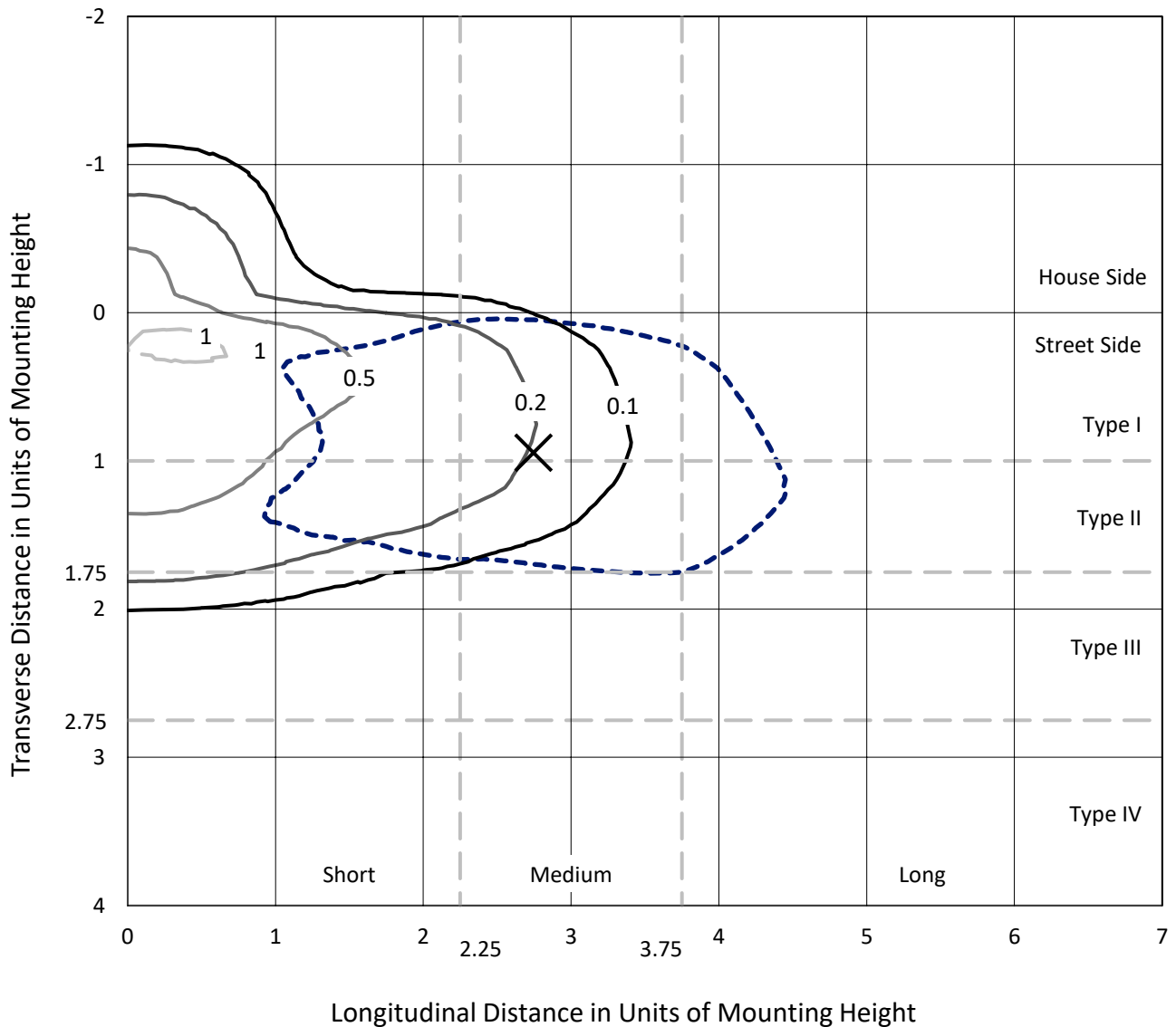
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

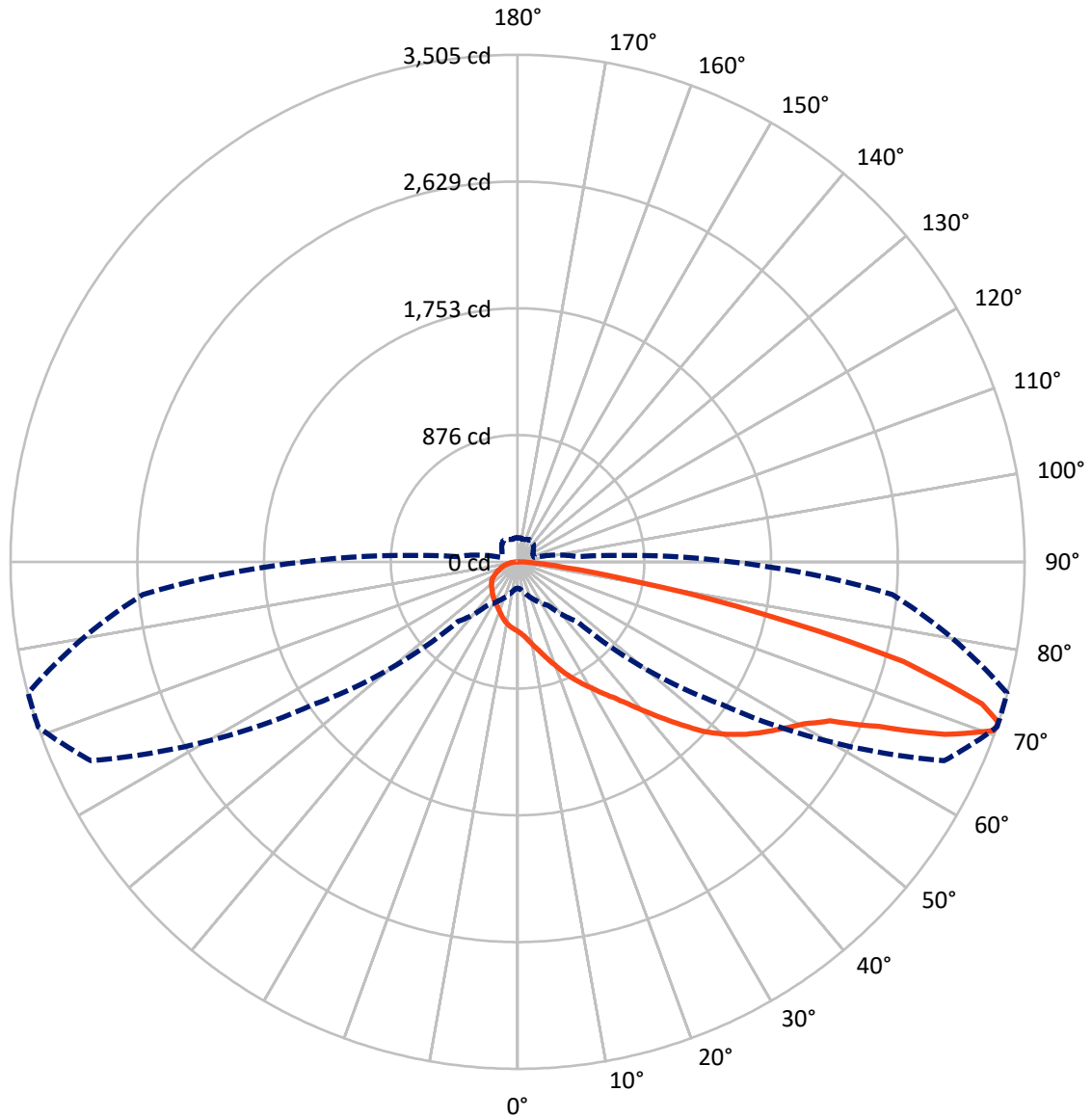
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	703.9	0.0	703.9
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	3210.1	0.0	3210.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	3914.0	0.0	3914.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	1.2
10°-20°	156.7	4.0
20°-30°	273.9	7.0
30°-40°	407.3	10.4
40°-50°	600.1	15.3
50°-60°	840.2	21.5
60°-70°	939.7	24.0
70°-80°	574.0	14.7
80°-90°	73.8	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°	3914.0	100.0
0°-180°	3914.0	100.0

**Coefficient of Utilization**

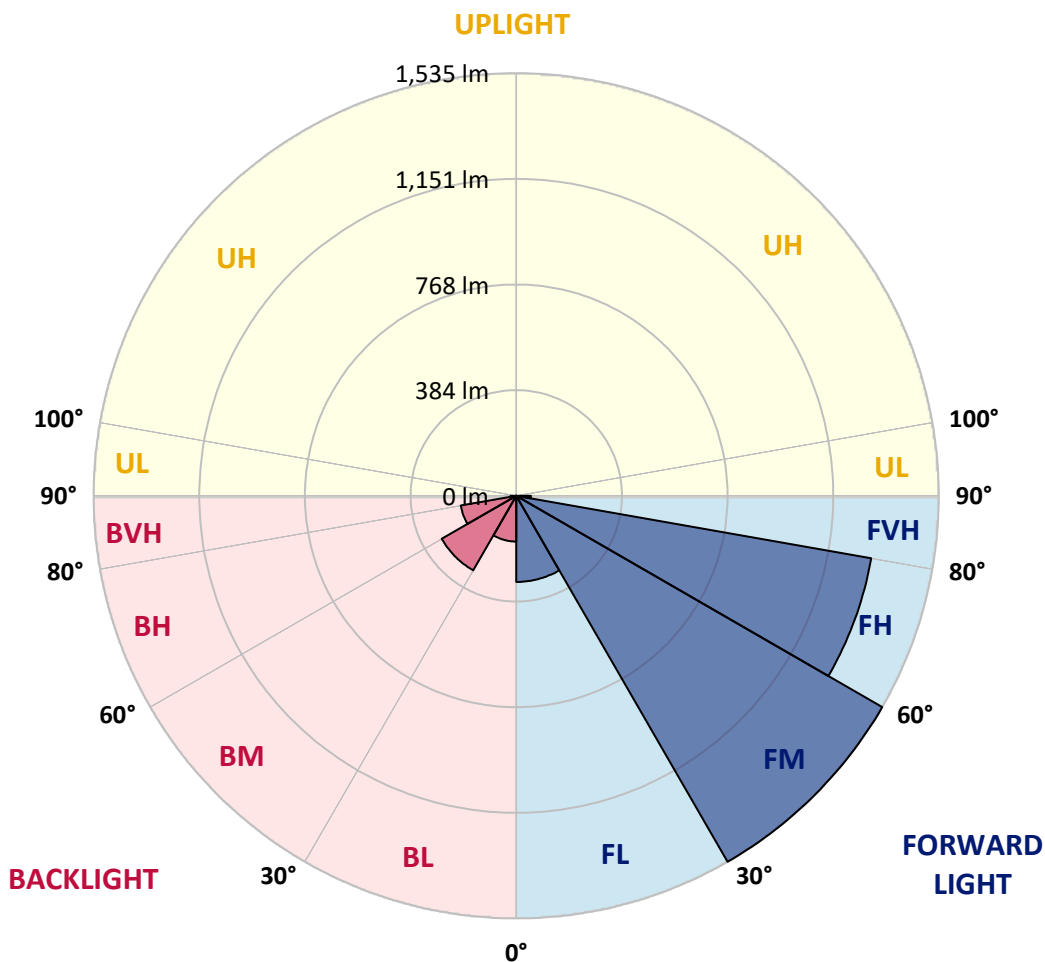


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.7	8.0			
FM (30°-60°)	1535.0	39.2			
FH (60°-80°)	1309.2	33.4			G1/1800
FVH (80°-90°)	53.1	1.4			G1/100
BL (0°-30°)	166.1	4.2	B1/500		
BM (30°-60°)	312.6	8.0	B1/1000		
BH (60°-80°)	204.5	5.2	B1/500		G1/500
BVH (80°-90°)	20.7	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°	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4
2.5°	533.3	530.7	530.9	527.2	522.5	517.4	510.1	503.6	498.5	495.4	486.6
5°	591.0	588.4	585.2	577.2	573.7	561.0	544.9	530.3	519.1	512.8	495.2
7.5°	637.6	637.0	636.1	631.6	622.8	605.1	591.4	566.0	549.4	537.6	507.5
10°	666.4	667.5	668.2	669.0	665.4	656.1	637.2	605.1	584.1	569.0	523.4
12.5°	681.0	682.1	685.8	693.7	698.7	697.6	682.1	650.8	621.7	601.9	540.4
15°	690.1	691.8	698.3	708.8	725.4	736.0	728.4	699.4	667.5	644.0	560.6
17.5°	700.0	702.0	709.0	724.1	745.8	768.6	776.8	751.9	717.2	689.3	583.2
20°	705.6	708.2	718.3	738.1	763.5	796.6	823.7	810.6	772.7	741.8	609.2
22.5°	714.6	716.8	725.4	746.5	776.8	818.3	870.6	867.8	834.4	794.4	637.8
25°	739.2	742.6	746.9	759.6	788.9	840.5	909.5	928.9	894.2	849.5	664.1
27.5°	785.4	788.2	788.0	789.7	806.3	859.7	943.3	989.4	953.6	905.3	689.5
30°	838.1	839.2	840.1	836.2	839.8	879.2	974.3	1049.1	1013.4	962.4	711.7
32.5°	902.2	904.4	897.1	887.2	884.1	908.3	999.9	1108.9	1084.2	1020.6	733.6
35°	977.9	983.5	968.7	951.3	939.0	950.0	1034.3	1170.1	1156.7	1094.7	762.6
37.5°	1064.5	1071.3	1057.6	1023.3	1005.9	1008.9	1079.3	1245.5	1248.4	1179.3	805.8
40°	1135.2	1144.3	1144.7	1096.2	1069.8	1073.3	1136.3	1326.8	1358.9	1283.9	856.8
42.5°	1181.9	1190.7	1199.9	1171.6	1143.8	1163.4	1202.7	1415.1	1483.3	1410.8	928.0
45°	1233.1	1241.1	1246.2	1233.3	1217.8	1268.6	1283.0	1508.8	1615.8	1552.6	1005.9
47.5°	1292.4	1301.3	1306.2	1294.0	1288.2	1360.8	1369.5	1596.4	1757.4	1690.2	1092.0
50°	1371.6	1378.3	1375.7	1368.0	1366.7	1431.6	1452.5	1678.4	1874.2	1838.4	1181.3
52.5°	1470.2	1478.1	1480.9	1469.9	1465.0	1482.2	1519.4	1753.1	1980.4	1965.8	1276.6
55°	1529.7	1542.4	1585.0	1602.2	1614.0	1547.6	1591.5	1835.4	2075.8	2100.1	1378.9
57.5°	1453.3	1469.7	1565.0	1651.1	1762.3	1711.1	1693.7	1921.4	2171.0	2230.2	1501.5
60°	1267.1	1270.8	1393.5	1552.1	1775.9	1921.3	1906.9	2058.3	2274.2	2361.4	1663.1
62.5°	879.0	886.8	1031.9	1285.0	1608.5	1997.0	2269.5	2294.5	2422.2	2557.8	1900.0
65°	453.3	443.1	575.4	807.5	1212.6	1817.1	2563.4	2728.8	2743.3	2865.0	2233.4
67.5°	279.0	283.5	345.5	471.5	717.0	1320.6	2532.7	3259.5	3183.6	3242.1	2542.9
70°	209.5	215.1	257.7	322.7	437.2	755.0	2036.8	3388.1	3494.3	3479.1	2637.2
71°	182.2	188.0	232.4	293.7	367.2	582.7	1716.1	3253.5	3505.0	3502.4	2601.7
72.5°	155.3	158.9	193.6	248.7	309.6	408.6	1289.3	2917.9	3355.5	3441.3	2475.0
75°	121.9	124.8	140.3	189.7	243.7	250.9	691.8	2187.6	2756.0	2919.4	2060.4
77.5°	99.4	101.3	109.2	140.9	188.0	177.7	362.9	1423.9	1726.6	1891.2	1213.7
80°	79.0	81.1	85.9	95.5	140.9	126.7	173.2	721.5	834.0	832.3	484.4
82.5°	61.3	62.0	67.5	70.1	96.4	89.9	93.8	305.5	338.4	349.6	174.9
85°	38.7	40.6	59.8	53.7	57.7	52.7	46.3	121.4	149.5	147.3	69.9
87.5°	11.9	12.4	20.2	22.8	25.6	23.0	17.0	35.7	43.6	47.3	17.4
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°	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4
2.5°	483.2	480.8	472.4	465.5	459.1	452.0	446.0	444.2	442.7	442.1	441.9
5°	487.7	480.5	464.0	450.4	439.7	429.8	423.6	420.8	418.0	418.0	418.8
7.5°	494.2	481.2	455.7	435.4	421.8	412.6	408.1	407.6	408.3	409.0	409.1
10°	501.2	480.8	443.4	418.2	406.1	401.8	402.1	405.7	409.1	411.8	412.2
12.5°	508.1	478.2	429.0	402.1	394.3	395.2	401.2	409.4	416.0	419.7	419.9
15°	515.9	474.2	411.5	386.8	384.2	390.9	402.1	414.5	424.6	430.7	431.3
17.5°	522.3	467.3	393.3	372.0	375.2	387.4	402.9	419.1	431.3	438.8	440.2
20°	529.7	458.4	374.3	357.8	367.0	383.6	401.2	418.6	431.3	438.7	440.3
22.5°	535.5	446.0	356.2	346.2	359.7	378.9	395.4	409.4	419.7	423.6	426.1
25°	537.8	430.3	339.3	336.7	353.9	371.0	382.2	390.2	393.4	393.0	394.1
27.5°	536.5	412.2	324.6	329.2	346.6	359.0	364.7	364.0	358.2	352.8	355.4
30°	531.2	390.6	312.3	321.4	337.1	344.0	343.1	334.7	323.8	313.6	314.3
32.5°	521.4	367.4	301.0	312.6	323.8	326.8	320.9	310.0	294.3	281.1	279.2
35°	513.3	345.2	290.8	302.4	310.4	308.9	303.3	289.1	274.9	263.3	261.4
37.5°	512.0	326.3	281.1	291.1	295.6	293.4	286.5	274.5	269.4	260.5	259.4
40°	518.9	313.0	271.3	279.0	281.1	279.5	271.9	265.0	269.8	267.6	267.6
42.5°	537.6	305.9	262.5	266.9	268.7	270.0	264.6	258.8	264.6	254.7	251.5
45°	567.3	306.1	254.5	255.2	260.3	264.8	261.1	252.6	249.5	229.8	225.9
47.5°	611.0	313.4	248.0	244.0	253.2	260.7	255.6	243.0	229.8	216.6	214.3
50°	662.0	326.6	242.2	232.4	243.7	255.6	251.7	237.1	223.3	215.3	213.9
52.5°	718.6	343.1	235.1	219.4	232.1	253.2	252.6	236.2	217.3	211.9	210.6
55°	788.4	359.4	226.3	204.4	221.8	251.3	250.2	229.1	216.0	212.1	211.7
57.5°	869.8	383.2	213.6	189.1	210.0	243.3	240.9	224.8	211.7	208.9	208.7
60°	1000.8	419.9	195.5	175.1	197.9	229.3	232.4	217.5	204.8	204.1	203.9
62.5°	1173.0	471.5	176.9	160.7	183.9	211.3	219.8	207.6	197.5	200.7	201.2
65°	1410.9	515.0	157.4	148.4	168.5	193.9	208.1	198.3	189.3	195.5	195.5
67.5°	1566.1	515.9	139.9	135.7	152.7	179.2	195.5	187.4	178.8	189.3	189.7
70°	1533.8	452.0	125.2	122.4	137.5	163.5	181.7	175.3	165.4	174.9	171.5
71°	1481.8	416.5	119.4	117.2	131.4	156.0	175.3	170.0	160.0	166.3	164.3
72.5°	1398.8	361.6	109.9	110.3	122.4	146.5	166.3	160.7	150.8	154.2	153.6
75°	1182.3	315.8	94.0	96.0	105.2	130.4	148.2	143.9	133.8	133.8	133.1
77.5°	739.2	220.7	78.1	79.1	89.3	111.7	127.3	123.7	114.0	110.8	109.9
80°	275.8	114.0	61.1	62.4	68.6	88.0	105.4	101.9	92.1	88.4	84.9
82.5°	104.4	57.2	45.0	43.9	50.5	67.1	82.6	78.5	70.8	62.0	59.4
85°	39.4	28.4	27.5	26.7	29.7	39.8	51.2	50.4	42.1	35.9	35.3
87.5°	10.3	9.3	10.8	8.0	8.4	7.6	7.7	3.2	1.5	0.7	0.4
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)