

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: P450295

Luminaire Tested: **GALN-SA1A-750-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450295  
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-750-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4654 lumens  
Efficiency: N/A  
Efficacy: 141.0 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

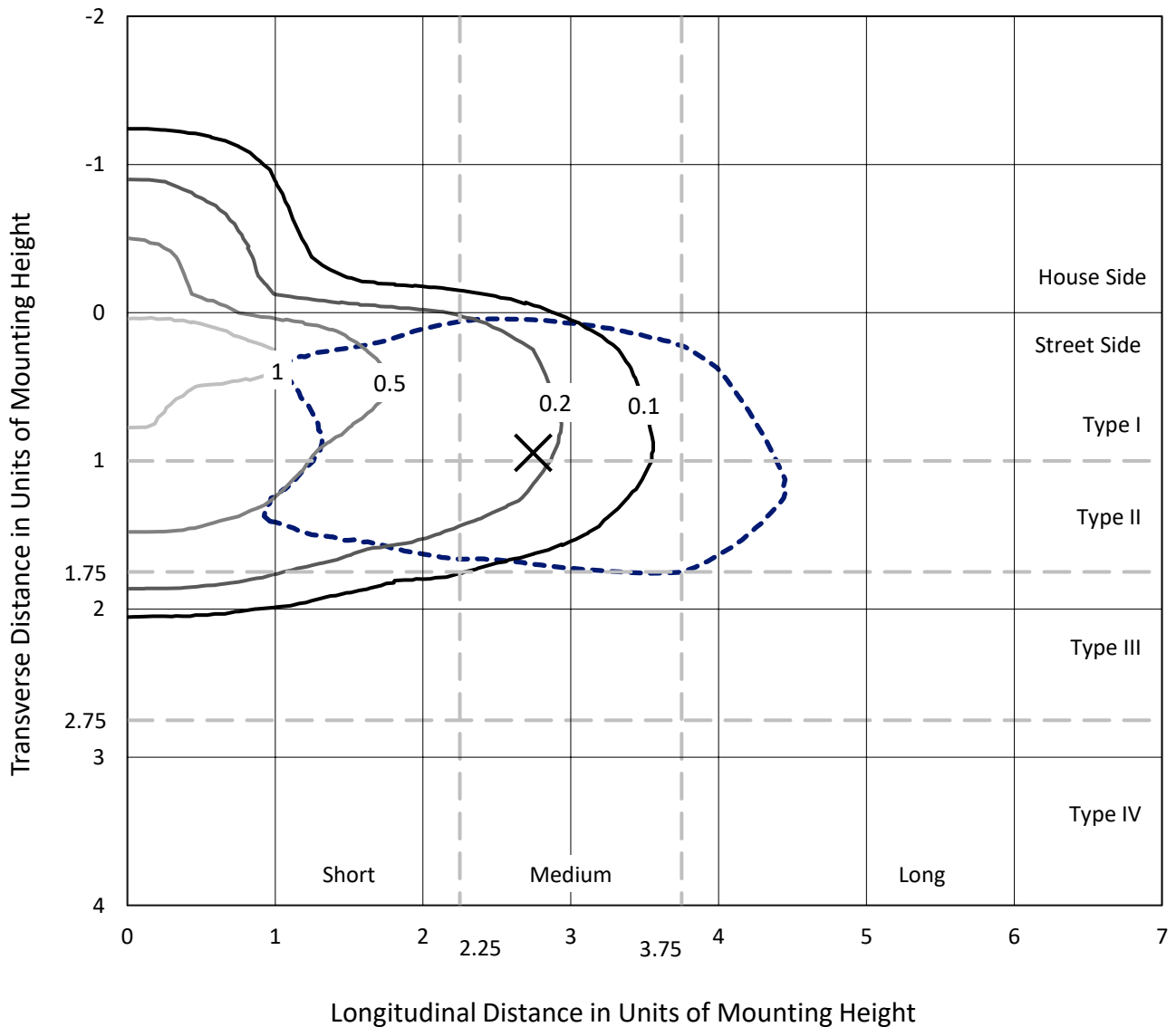
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

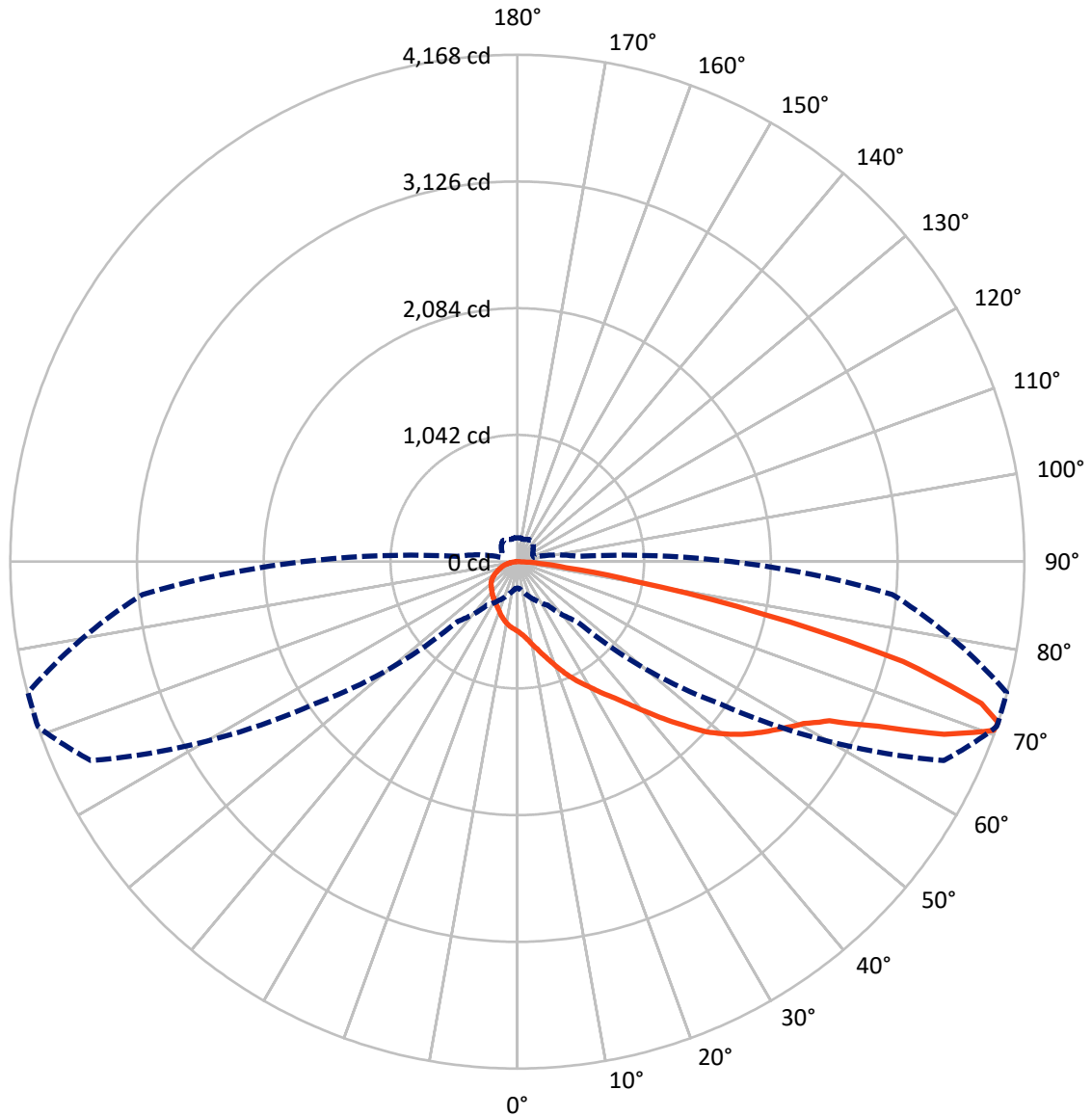
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	837.0	0.0	837.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	3817.0	0.0	3817.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	4654.0	0.0	4654.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	1.2
10°-20°	186.3	4.0
20°-30°	325.6	7.0
30°-40°	484.3	10.4
40°-50°	713.6	15.3
50°-60°	999.0	21.5
60°-70°	1117.4	24.0
70°-80°	682.5	14.7
80°-90°	87.8	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°	4654.0	100.0
0°-180°	4654.0	100.0

**Coefficient of Utilization**



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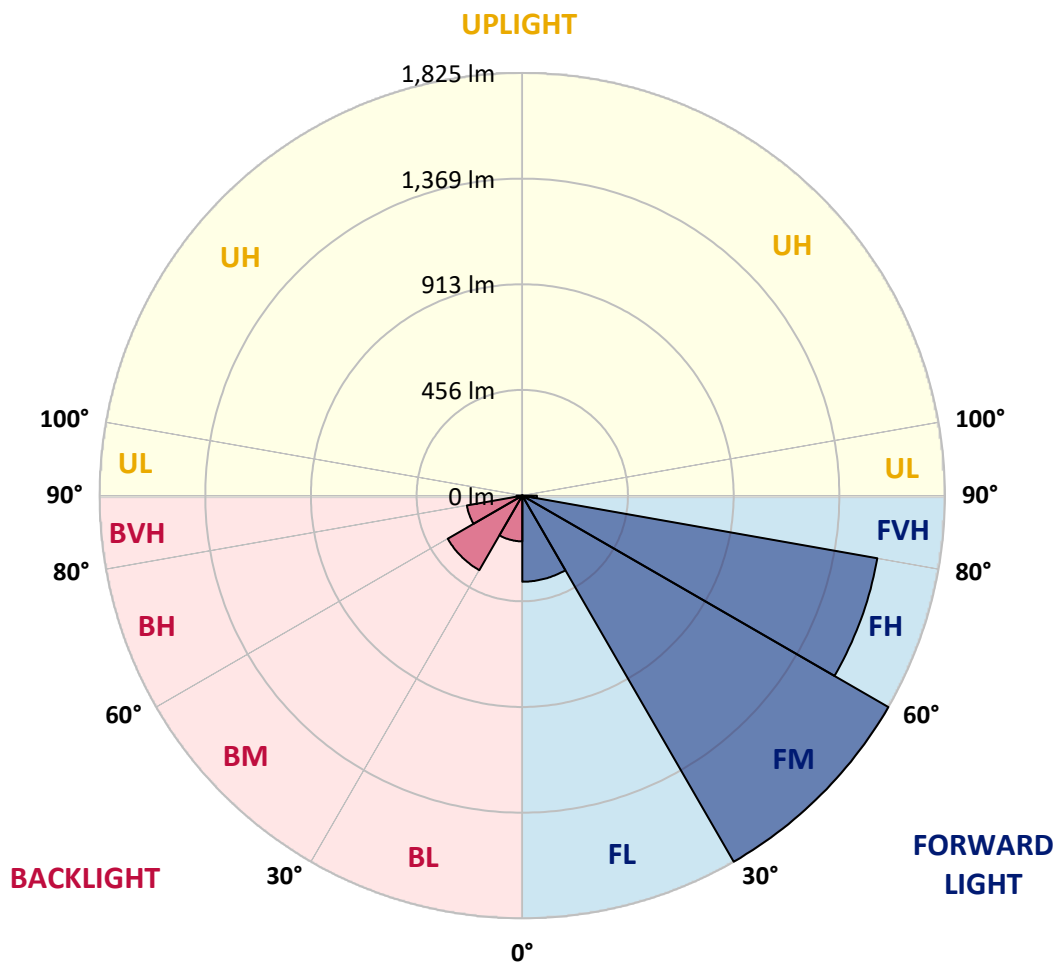
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.9	8.0			
FM	(30°-60°)	1825.2	39.2			
FH	(60°-80°)	1556.7	33.4			G1/1800
FVH	(80°-90°)	63.2	1.4			G1/100
BL	(0°-30°)	197.5	4.2	B1/500		
BM	(30°-60°)	371.8	8.0	B1/1000		
BH	(60°-80°)	243.2	5.2	B1/500		G1/500
BVH	(80°-90°)	24.6	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°	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2
2.5°	634.1	631.0	631.3	626.9	621.3	615.2	606.5	598.8	592.7	589.1	578.6
5°	702.7	699.6	695.8	686.3	682.2	667.1	647.9	630.5	617.2	609.8	588.8
7.5°	758.2	757.4	756.4	751.0	740.5	719.5	703.2	673.0	653.3	639.2	603.4
10°	792.4	793.7	794.5	795.5	791.2	780.2	757.7	719.5	694.5	676.6	622.3
12.5°	809.8	811.1	815.5	824.9	830.8	829.5	811.1	773.8	739.2	715.7	642.6
15°	820.6	822.6	830.3	842.8	862.5	875.1	866.1	831.6	793.7	765.8	666.6
17.5°	832.4	834.7	843.1	861.0	886.8	913.9	923.7	894.0	852.8	819.6	693.5
20°	839.0	842.1	854.1	877.6	907.8	947.2	979.4	963.8	918.8	882.0	724.4
22.5°	849.7	852.3	862.5	887.6	923.7	973.0	1035.2	1031.9	992.2	944.6	758.4
25°	878.9	883.0	888.1	903.2	938.0	999.4	1081.5	1104.5	1063.3	1010.1	789.6
27.5°	933.9	937.2	937.0	939.0	958.7	1022.2	1121.7	1176.4	1133.9	1076.4	819.8
30°	996.6	997.9	998.9	994.3	998.6	1045.4	1158.5	1247.5	1205.0	1144.4	846.2
32.5°	1072.8	1075.4	1066.7	1054.9	1051.3	1080.0	1188.9	1318.6	1289.2	1213.5	872.3
35°	1162.8	1169.5	1151.8	1131.1	1116.5	1129.6	1229.9	1391.3	1375.4	1301.7	906.8
37.5°	1265.7	1273.9	1257.5	1216.8	1196.1	1199.7	1283.3	1481.0	1484.4	1402.3	958.2
40°	1349.8	1360.6	1361.1	1303.5	1272.1	1276.2	1351.1	1577.7	1615.8	1526.6	1018.8
42.5°	1405.3	1415.8	1426.8	1393.1	1360.1	1383.3	1430.1	1682.6	1763.7	1677.5	1103.5
45°	1466.2	1475.7	1481.8	1466.5	1448.0	1508.4	1525.6	1794.1	1921.3	1846.1	1196.1
47.5°	1536.8	1547.3	1553.2	1538.6	1531.7	1618.1	1628.4	1898.2	2089.6	2009.8	1298.4
50°	1630.9	1638.9	1635.8	1626.6	1625.1	1702.3	1727.1	1995.7	2228.5	2186.0	1404.6
52.5°	1748.1	1757.6	1760.9	1747.8	1742.0	1762.4	1806.7	2084.5	2354.8	2337.4	1517.9
55°	1818.9	1834.0	1884.7	1905.1	1919.2	1840.2	1892.4	2182.4	2468.2	2497.1	1639.6
57.5°	1728.1	1747.6	1860.9	1963.2	2095.5	2034.6	2013.9	2284.7	2581.5	2651.8	1785.4
60°	1506.6	1511.0	1657.0	1845.5	2111.6	2284.5	2267.4	2447.4	2704.2	2807.8	1977.5
62.5°	1045.2	1054.4	1227.0	1527.9	1912.6	2374.5	2698.6	2728.3	2880.2	3041.4	2259.2
65°	539.0	526.9	684.2	960.2	1441.9	2160.7	3048.0	3244.7	3261.9	3406.7	2655.6
67.5°	331.8	337.1	410.8	560.7	852.6	1570.3	3011.5	3875.8	3785.5	3855.1	3023.7
70°	249.1	255.8	306.4	383.7	519.8	897.8	2421.9	4028.7	4154.9	4136.9	3135.8
71°	216.7	223.6	276.3	349.2	436.6	692.9	2040.5	3868.6	4167.6	4164.6	3093.6
72.5°	184.7	189.0	230.2	295.7	368.1	485.8	1533.0	3469.6	3989.9	4091.9	2942.9
75°	145.0	148.4	166.8	225.6	289.8	298.3	822.6	2601.2	3277.0	3471.4	2450.0
77.5°	118.2	120.5	129.9	167.5	223.6	211.3	431.5	1693.1	2053.0	2248.7	1443.2
80°	93.9	96.4	102.1	113.6	167.5	150.7	205.9	857.9	991.7	989.7	576.0
82.5°	72.9	73.7	80.3	83.4	114.6	106.9	111.5	363.2	402.4	415.7	208.0
85°	46.0	48.3	71.1	63.9	68.6	62.7	55.0	144.3	177.8	175.2	83.1
87.5°	14.1	14.8	24.0	27.1	30.4	27.4	20.2	42.5	51.9	56.3	20.7
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°	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2
2.5°	574.5	571.7	561.7	553.5	545.9	537.4	530.3	528.2	526.4	525.7	525.4
5°	579.9	571.4	551.7	535.6	522.8	511.1	503.7	500.3	497.0	497.0	498.0
7.5°	587.6	572.2	541.8	517.7	501.6	490.6	485.2	484.7	485.5	486.3	486.5
10°	596.0	571.7	527.2	497.3	482.9	477.8	478.1	482.4	486.5	489.6	490.1
12.5°	604.2	568.6	510.1	478.1	468.9	469.9	477.1	486.8	494.7	499.1	499.3
15°	613.4	563.8	489.3	459.9	456.8	464.8	478.1	492.9	504.9	512.1	512.9
17.5°	621.1	555.6	467.6	442.3	446.1	460.7	479.1	498.3	512.9	521.8	523.4
20°	629.8	545.1	445.1	425.4	436.4	456.1	477.1	497.8	512.9	521.6	523.6
22.5°	636.7	530.3	423.6	411.6	427.7	450.5	470.1	486.8	499.1	503.7	506.7
25°	639.5	511.6	403.4	400.3	420.8	441.2	454.5	464.0	467.8	467.3	468.6
27.5°	637.9	490.1	386.0	391.4	412.1	426.9	433.6	432.8	425.9	419.5	422.6
30°	631.6	464.5	371.4	382.2	400.8	409.0	408.0	398.0	385.0	372.9	373.7
32.5°	620.0	436.9	357.9	371.7	385.0	388.6	381.6	368.6	349.9	334.3	332.0
35°	610.3	410.5	345.8	359.6	369.1	367.3	360.7	343.8	326.9	313.1	310.8
37.5°	608.8	388.0	334.3	346.1	351.5	348.9	340.7	326.4	320.3	309.8	308.5
40°	617.0	372.2	322.6	331.8	334.3	332.3	323.3	315.1	320.8	318.2	318.2
42.5°	639.2	363.7	312.1	317.4	319.5	321.0	314.6	307.7	314.6	302.9	299.0
45°	674.5	364.0	302.6	303.4	309.5	314.9	310.5	300.3	296.7	273.2	268.6
47.5°	726.5	372.7	294.9	290.1	301.1	310.0	303.9	289.0	273.2	257.6	254.8
50°	787.1	388.3	288.0	276.3	289.8	303.9	299.3	281.9	265.5	256.0	254.3
52.5°	854.4	408.0	279.6	260.9	276.0	301.1	300.3	280.9	258.4	252.0	250.4
55°	937.5	427.4	269.1	243.0	263.7	298.8	297.5	272.4	256.8	252.2	251.7
57.5°	1034.2	455.6	254.0	224.8	249.7	289.3	286.5	267.3	251.7	248.4	248.1
60°	1190.0	499.3	232.5	208.2	235.3	272.7	276.3	258.6	243.5	242.7	242.5
62.5°	1394.8	560.7	210.3	191.1	218.7	251.2	261.4	246.8	234.8	238.7	239.2
65°	1677.7	612.4	187.2	176.5	200.3	230.5	247.4	235.8	225.1	232.5	232.5
67.5°	1862.2	613.4	166.3	161.4	181.6	213.1	232.5	222.8	212.6	225.1	225.6
70°	1823.8	537.4	148.9	145.5	163.5	194.4	216.1	208.5	196.7	208.0	203.9
71°	1761.9	495.2	142.0	139.4	156.3	185.5	208.5	202.1	190.3	197.7	195.4
72.5°	1663.2	430.0	130.7	131.2	145.5	174.2	197.7	191.1	179.3	183.4	182.6
75°	1405.8	375.5	111.8	114.1	125.1	155.0	176.2	171.1	159.1	159.1	158.3
77.5°	878.9	262.4	92.9	94.1	106.2	132.8	151.4	147.1	135.6	131.7	130.7
80°	327.9	135.6	72.6	74.2	81.6	104.6	125.3	121.2	109.5	105.1	101.0
82.5°	124.1	68.0	53.5	52.2	60.1	79.8	98.2	93.4	84.2	73.7	70.6
85°	46.8	33.8	32.7	31.7	35.3	47.3	60.9	59.9	50.1	42.7	42.0
87.5°	12.3	11.0	12.8	9.5	10.0	9.0	9.2	3.8	1.8	0.8	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)