

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: P450212

Luminaire Tested: **GALN-SA1A-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3838 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

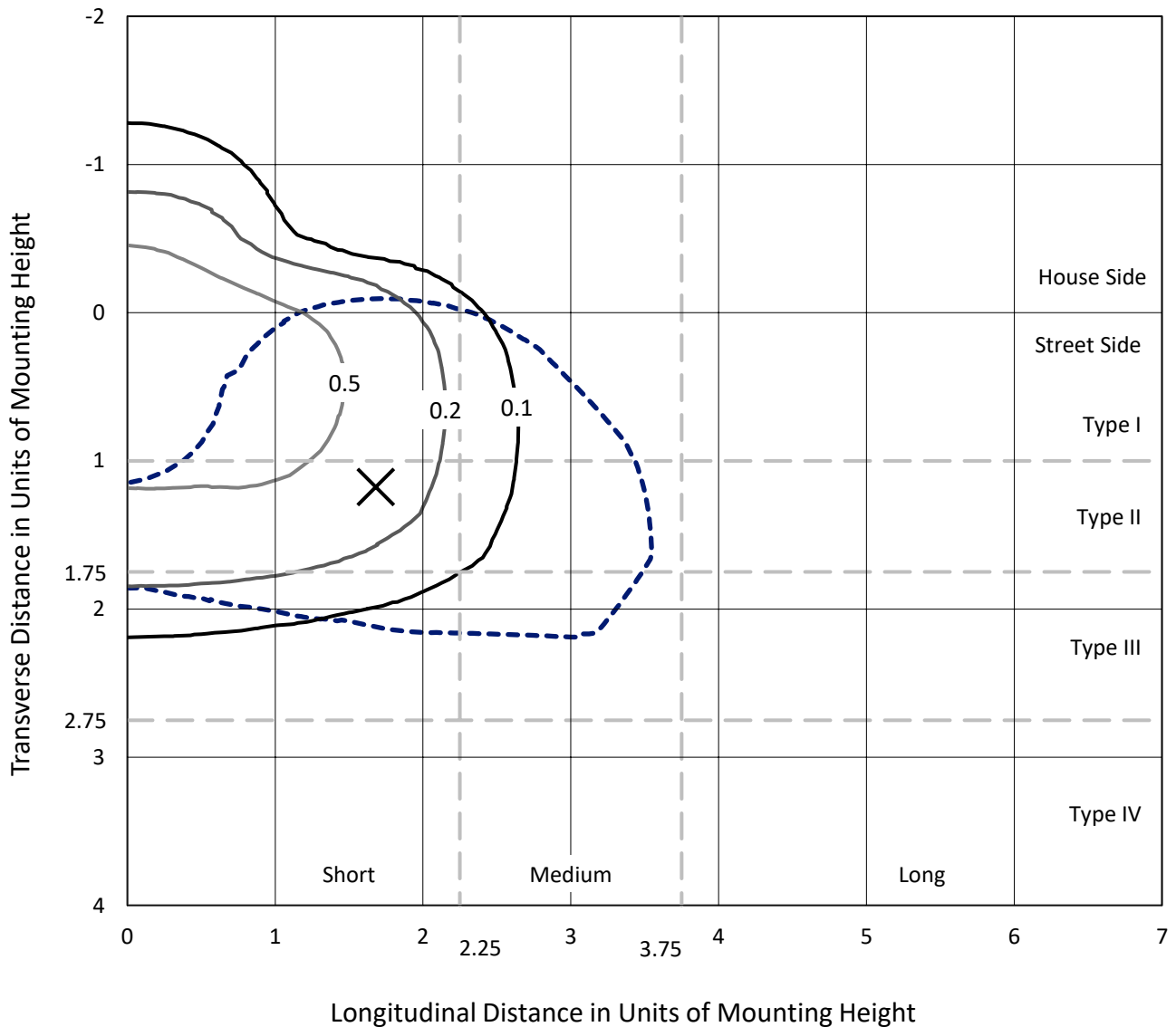
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

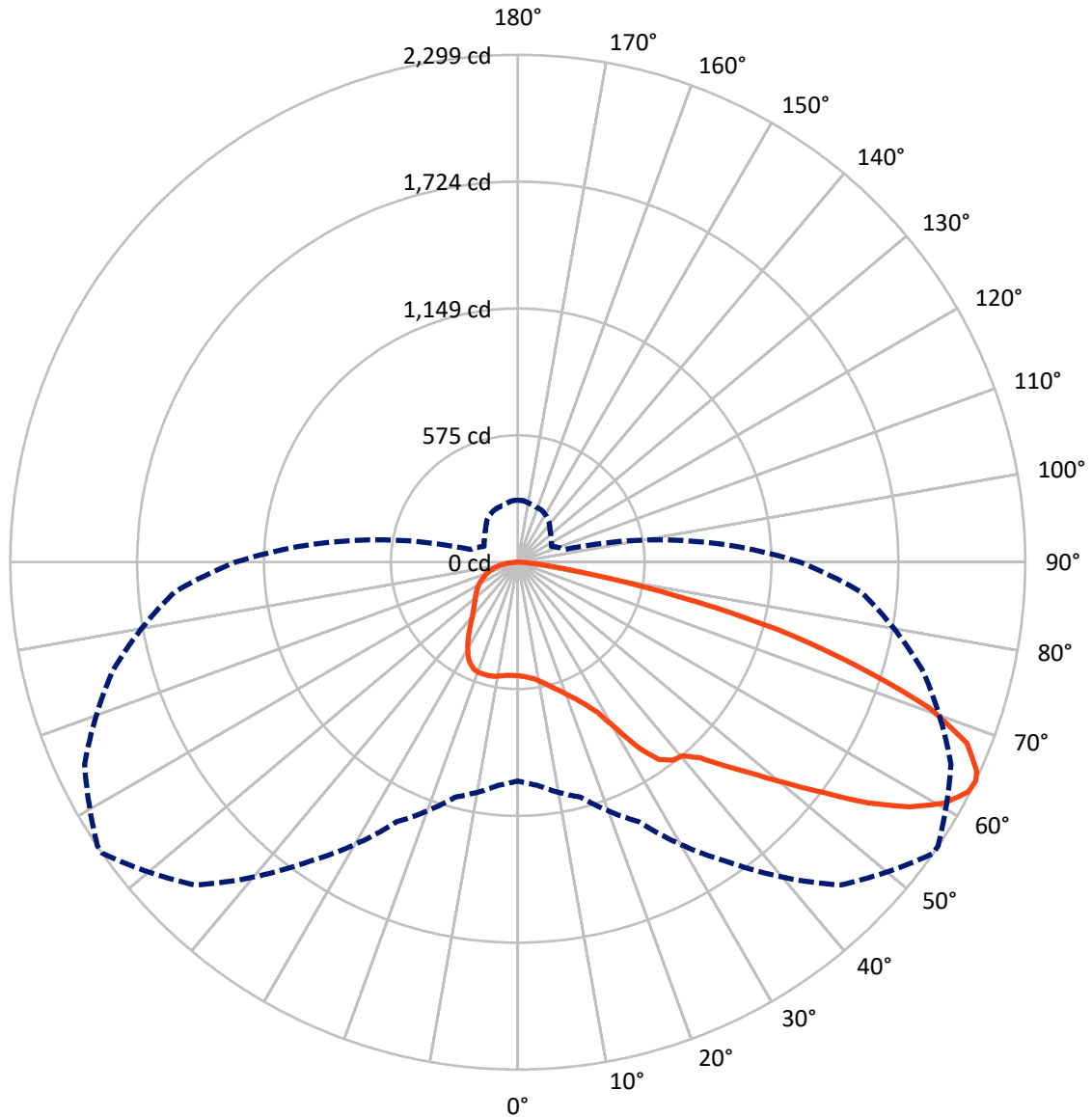
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	932.3	0.0	932.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	2905.7	0.0	2905.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	3838.0	0.0	3838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.3
10°-20°	158.0	4.1
20°-30°	281.4	7.3
30°-40°	432.9	11.3
40°-50°	613.7	16.0
50°-60°	888.3	23.1
60°-70°	919.3	24.0
70°-80°	430.5	11.2
80°-90°	63.7	1.7
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°	3838.0	100.0
0°-180°	3838.0	100.0

Coefficient of Utilization



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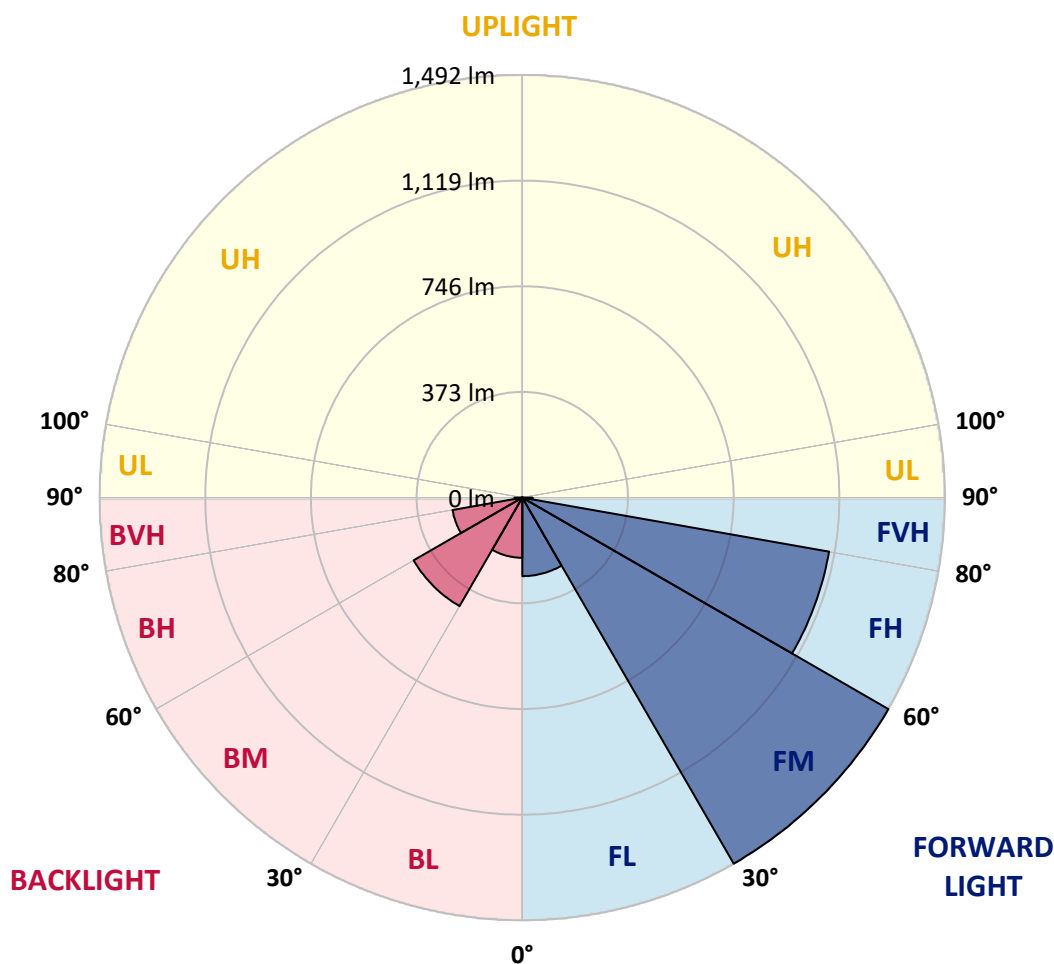
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.2	7.2			
FM (30°-60°)	1492.3	38.9			
FH (60°-80°)	1099.7	28.7			G1/1800
FVH (80°-90°)	36.5	1.0			G1/100
BL (0°-30°)	212.3	5.5	B1/500		
BM (30°-60°)	442.6	11.5	B1/1000		
BH (60°-80°)	250.1	6.5	B1/500		G1/500
BVH (80°-90°)	27.2	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9
2.5°	520.7	520.5	521.1	520.5	520.9	519.4	518.8	519.2	518.6	517.5	515.6
5°	527.1	526.9	527.1	526.3	526.7	525.9	524.4	524.8	523.7	521.4	518.6
7.5°	538.0	537.2	537.2	537.0	536.1	534.8	533.8	533.3	532.3	529.3	525.0
10°	552.2	552.2	552.4	550.7	551.7	549.4	548.3	548.1	544.5	540.6	534.6
12.5°	570.8	571.9	571.2	570.4	569.9	569.1	565.4	566.3	562.2	555.6	548.3
15°	593.9	595.6	594.5	594.1	593.0	589.8	588.3	587.7	582.3	572.7	563.1
17.5°	624.5	622.3	621.5	620.4	615.9	613.6	611.0	610.6	605.9	594.5	579.6
20°	651.2	654.2	652.5	651.4	646.9	642.4	640.5	639.9	635.8	623.4	599.4
22.5°	683.1	683.7	684.4	681.8	679.7	676.3	672.8	671.8	670.3	657.4	628.1
25°	717.1	719.7	717.5	715.0	712.4	712.2	715.4	715.0	714.3	701.9	666.2
27.5°	772.5	774.9	775.5	772.7	762.9	763.8	771.0	773.4	783.2	762.7	715.2
30°	803.8	806.1	811.5	821.9	837.6	851.3	868.8	874.1	883.6	844.8	773.4
32.5°	823.0	823.9	833.5	853.0	899.8	950.9	998.7	1000.6	1006.6	952.2	826.6
35°	853.4	854.0	861.7	883.1	938.1	1023.3	1097.1	1099.4	1094.5	985.6	851.5
37.5°	890.8	892.5	897.5	915.2	980.9	1083.8	1137.9	1136.2	1092.6	1012.1	895.3
40°	945.4	945.4	939.6	963.6	1026.0	1118.5	1152.3	1149.3	1137.7	1088.9	962.1
42.5°	993.5	992.7	1006.4	1022.6	1082.5	1171.9	1212.4	1217.3	1236.3	1185.4	1038.0
45°	1056.2	1060.1	1067.8	1097.3	1178.6	1263.3	1315.5	1320.2	1347.2	1299.0	1126.8
47.5°	1119.5	1120.8	1145.0	1184.3	1297.5	1387.2	1429.9	1437.6	1462.3	1431.9	1222.4
50°	1164.5	1176.6	1215.4	1277.4	1420.1	1538.2	1571.6	1580.8	1624.2	1576.5	1333.9
52.5°	1211.9	1223.9	1271.2	1365.8	1560.9	1692.7	1733.7	1739.9	1785.1	1722.8	1447.9
55°	1252.6	1263.7	1317.4	1444.1	1673.0	1850.3	1924.8	1917.5	1939.1	1835.6	1535.8
57.5°	1259.2	1268.2	1335.8	1494.1	1757.3	1985.5	2092.3	2096.6	2071.5	1919.9	1608.4
60°	1207.9	1226.3	1303.9	1488.8	1795.1	2079.7	2217.2	2220.2	2149.2	1963.1	1637.3
62.5°	1117.0	1115.0	1209.0	1402.8	1742.1	2101.1	2290.8	2287.6	2179.6	1942.3	1609.2
64°	991.4	1014.5	1102.2	1297.1	1656.5	2068.1	2298.5	2296.8	2165.0	1899.1	1561.5
65°	914.8	913.5	1000.2	1210.7	1571.4	2018.5	2284.8	2282.5	2134.7	1860.4	1524.5
67.5°	660.4	663.4	749.0	934.3	1277.4	1824.4	2195.6	2186.9	2014.8	1732.0	1383.7
70°	400.1	401.8	468.9	619.8	916.9	1474.9	1979.1	1979.5	1831.5	1540.3	1177.7
72.5°	210.7	215.2	242.2	351.9	556.9	1034.8	1605.6	1643.7	1572.4	1314.6	930.4
75°	117.2	117.9	136.9	173.5	284.1	579.1	1206.8	1217.7	1244.9	1058.1	688.0
77.5°	89.4	90.7	96.7	112.1	154.7	268.5	730.4	785.1	877.4	746.0	392.6
80°	72.5	73.8	78.9	88.1	102.9	127.3	339.3	368.8	469.6	331.2	153.2
82.5°	56.5	55.6	62.3	68.2	74.9	75.3	139.3	154.0	191.3	142.5	66.3
85°	41.9	41.9	47.3	46.0	48.3	44.1	61.4	67.8	76.6	60.5	30.8
87.5°	16.7	18.4	31.0	27.8	21.6	17.3	22.7	24.0	26.5	23.7	12.8
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°	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9
2.5°	515.8	516.4	514.9	513.9	513.4	512.8	512.2	512.4	513.2	514.1	513.9
5°	518.4	518.6	516.0	514.7	513.9	513.0	513.0	513.7	515.4	516.7	516.7
7.5°	524.8	524.8	521.1	518.8	517.5	516.0	515.6	515.8	517.1	518.8	519.0
10°	534.8	534.0	529.3	525.6	523.3	519.7	516.4	514.7	515.4	516.4	516.4
12.5°	547.0	544.7	538.7	533.8	528.0	521.1	514.5	511.1	510.9	511.9	511.5
15°	560.1	557.5	549.2	540.2	530.1	520.1	512.2	507.2	503.4	502.3	504.7
17.5°	575.3	569.9	558.4	546.0	531.0	517.9	505.5	495.5	488.6	486.7	487.3
20°	593.7	586.6	571.0	551.5	530.3	510.2	491.0	477.5	466.4	463.0	463.4
22.5°	619.1	606.9	584.0	554.3	525.0	495.7	468.9	451.4	437.9	432.6	435.8
25°	648.0	634.7	596.5	553.7	511.1	472.4	442.8	420.0	407.8	399.8	401.6
27.5°	687.8	664.3	609.7	547.9	491.2	443.9	409.7	388.1	377.0	372.9	374.8
30°	738.7	702.6	624.1	532.3	459.7	408.0	376.3	362.2	355.6	350.4	352.1
32.5°	775.5	729.5	627.3	506.0	425.7	375.2	353.6	343.2	335.9	331.0	332.0
35°	801.8	752.4	625.8	473.7	390.2	348.3	335.7	327.1	315.3	304.6	302.7
37.5°	837.1	781.1	614.9	438.4	355.1	330.1	321.1	305.3	288.4	274.1	273.4
40°	891.3	814.7	591.5	396.9	325.2	316.6	305.7	285.2	267.0	255.4	254.6
42.5°	947.1	845.7	559.9	353.2	300.6	302.5	289.2	268.9	257.8	250.3	249.4
45°	1015.3	879.3	525.6	315.3	282.4	289.2	274.9	263.1	256.5	251.6	250.3
47.5°	1089.1	913.7	487.1	281.3	267.0	277.0	268.9	263.6	259.9	256.5	255.0
50°	1168.7	952.2	451.0	253.9	253.1	264.4	268.3	266.4	264.2	263.1	261.9
52.5°	1256.0	991.6	420.6	234.7	240.9	255.4	268.5	270.0	270.0	269.3	268.5
55°	1315.1	1019.0	389.8	219.1	228.5	248.2	268.1	273.8	276.0	275.1	274.3
57.5°	1358.7	1034.0	351.1	205.6	218.0	241.1	265.7	274.3	276.4	277.5	277.0
60°	1367.7	1020.0	300.4	191.5	206.7	230.8	257.2	267.8	270.6	277.3	277.9
62.5°	1327.3	977.3	249.9	177.6	192.8	215.2	245.6	260.6	266.1	276.4	277.5
64°	1277.6	929.3	221.9	168.8	183.8	206.4	239.8	258.6	265.9	279.6	280.5
65°	1241.3	894.5	204.3	163.2	178.0	200.7	236.6	259.3	267.8	284.5	285.8
67.5°	1107.3	774.4	169.0	150.2	164.3	190.8	237.3	264.6	267.4	286.5	286.2
70°	916.3	616.6	141.6	138.2	151.0	182.9	234.7	256.1	256.3	268.9	265.9
72.5°	686.1	455.7	122.8	125.8	136.3	164.1	221.6	244.5	240.9	242.6	239.6
75°	471.3	301.4	105.7	112.5	120.9	145.0	203.2	222.1	216.3	214.1	212.0
77.5°	251.6	166.7	87.9	99.5	105.0	125.4	177.4	195.5	189.5	181.2	178.4
80°	101.8	78.5	70.8	82.4	85.6	101.0	147.6	159.0	154.5	139.9	135.2
82.5°	51.1	47.1	55.6	64.8	65.0	72.1	109.7	120.4	110.4	92.6	88.6
85°	26.7	27.6	38.3	45.6	40.2	38.9	65.9	73.0	67.0	58.2	52.4
87.5°	9.6	11.1	20.1	19.9	14.1	7.5	14.5	7.1	3.9	2.4	3.0
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)