

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: P450216

Luminaire Tested: **GALN-SA1A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

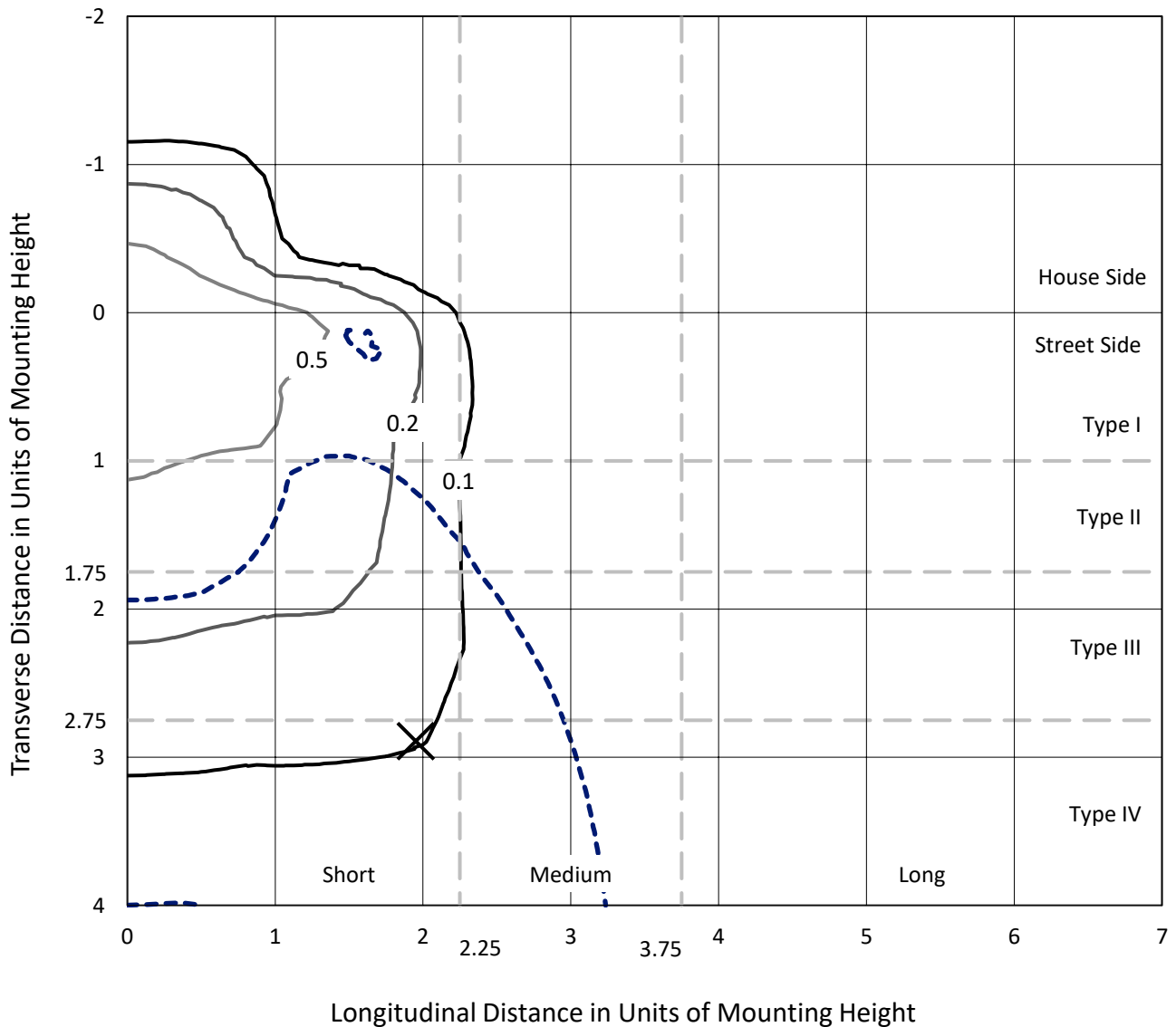
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

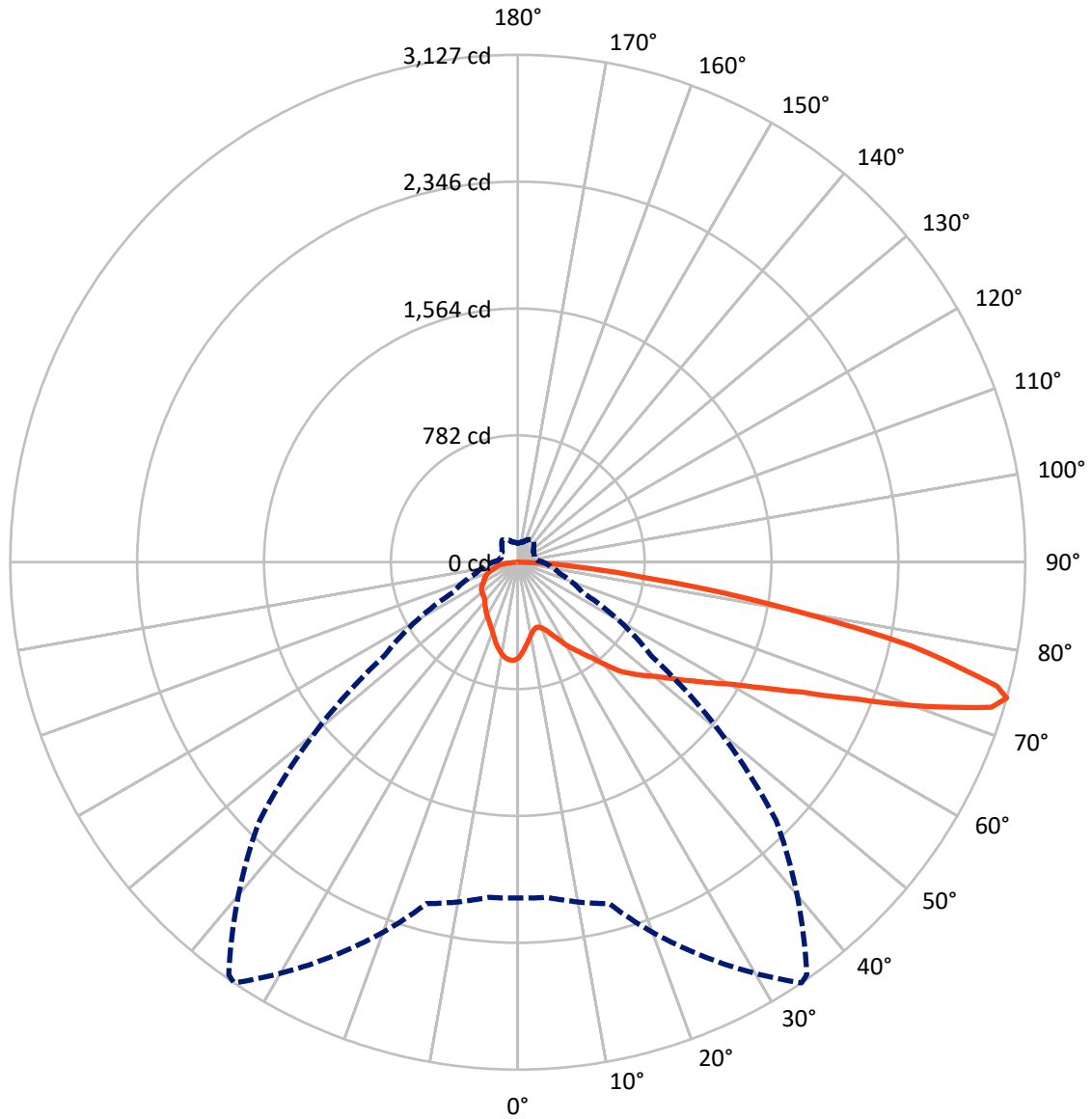
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	821.6	0.0	821.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3039.3	0.0	3039.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	3861.0	0.0	3861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.4
10°-20°	146.8	3.8
20°-30°	242.0	6.3
30°-40°	362.4	9.4
40°-50°	526.9	13.6
50°-60°	736.0	19.1
60°-70°	921.4	23.9
70°-80°	761.9	19.7
80°-90°	110.1	2.9
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°	3861.0	100.0
0°-180°	3861.0	100.0

Coefficient of Utilization



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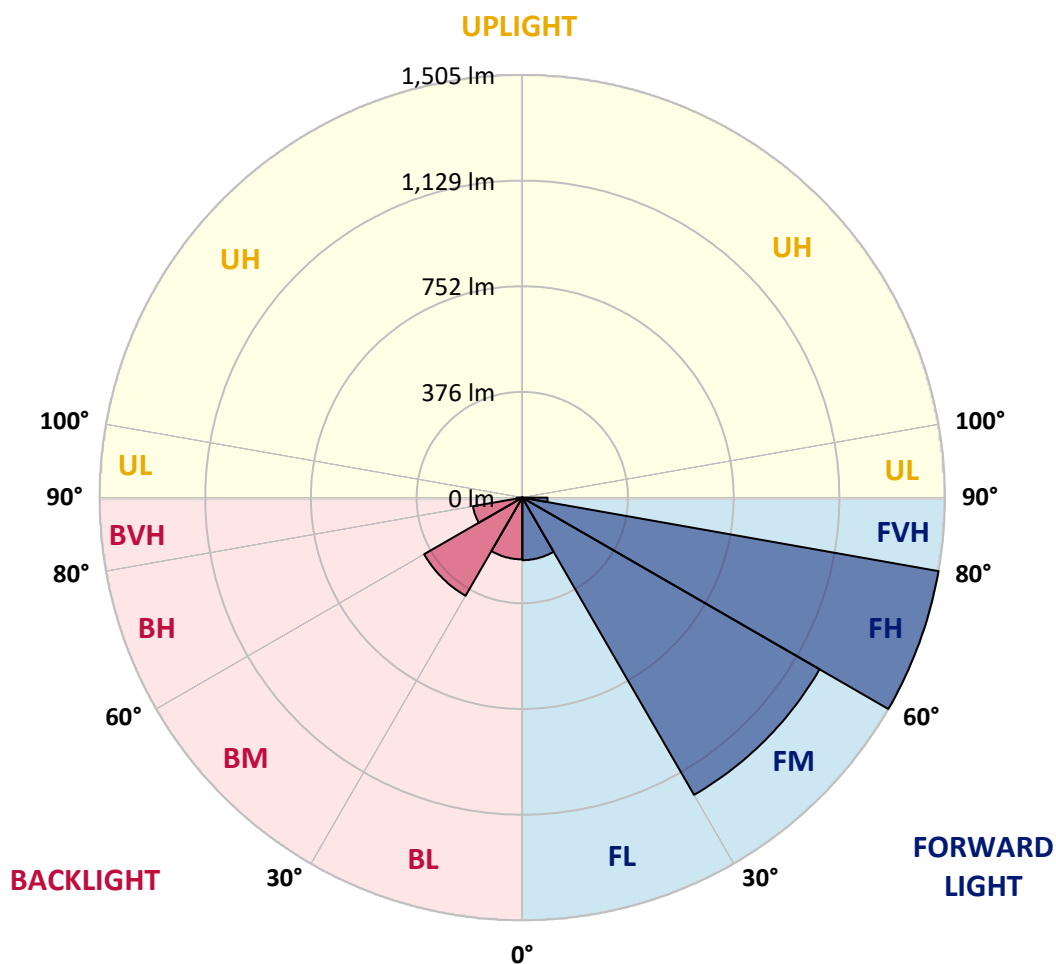
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.6	5.8			
FM (30°-60°)	1221.8	31.6			
FH (60°-80°)	1504.8	39.0			G1/1800
FVH (80°-90°)	90.2	2.3			G1/100
BL (0°-30°)	219.8	5.7	B1/500		
BM (30°-60°)	403.5	10.5	B1/1000		
BH (60°-80°)	178.5	4.6	B1/500		G1/500
BVH (80°-90°)	19.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5
2.5°	544.8	547.6	549.1	554.4	555.7	557.4	561.9	567.9	575.6	582.4	588.4
5°	499.4	503.7	506.3	511.0	520.2	521.1	533.0	546.7	562.3	576.9	588.9
7.5°	456.5	461.2	463.3	471.9	484.0	486.0	503.5	525.1	551.2	573.2	591.6
10°	424.2	426.5	431.2	437.6	452.2	453.5	476.3	505.2	539.0	571.5	596.3
12.5°	406.6	407.9	409.0	415.8	430.1	432.1	456.0	488.8	529.4	572.8	604.0
15°	409.2	409.6	404.9	406.2	417.7	420.5	444.3	477.8	523.4	576.0	615.6
17.5°	430.8	429.3	417.7	411.8	419.9	421.2	441.9	473.6	520.6	582.0	627.6
20°	464.8	462.7	442.8	429.5	434.2	435.3	449.6	476.8	523.4	591.9	646.2
22.5°	507.1	506.3	476.1	460.1	459.9	459.9	467.4	488.3	531.7	605.3	665.6
25°	566.4	561.9	522.5	501.8	496.0	495.6	494.7	507.4	542.4	619.7	688.7
27.5°	627.1	619.4	584.4	552.5	540.1	538.6	533.0	534.3	556.1	635.9	715.1
30°	681.7	676.8	643.8	608.5	593.8	590.4	575.0	567.9	579.0	665.2	757.0
32.5°	723.4	720.4	694.7	662.7	640.8	640.2	617.7	612.0	614.7	700.7	804.9
35°	757.2	758.3	745.2	717.4	692.4	688.7	673.8	666.5	658.4	752.1	865.2
37.5°	803.4	805.7	804.9	780.9	750.3	751.2	747.8	735.8	714.2	809.4	932.2
40°	854.3	856.0	855.8	846.6	830.6	831.4	830.1	816.4	784.1	882.3	1006.6
42.5°	924.7	916.5	895.4	904.6	914.0	918.0	926.8	913.8	869.5	960.2	1076.5
45°	1003.4	988.0	940.1	944.4	979.2	986.9	1035.3	1017.3	962.1	1049.6	1158.9
47.5°	1053.0	1037.8	997.4	996.5	1042.7	1050.2	1135.8	1129.2	1046.4	1146.1	1259.4
50°	1097.3	1095.1	1049.6	1060.5	1105.6	1116.8	1245.3	1239.1	1130.4	1259.8	1368.9
52.5°	1163.0	1145.6	1109.3	1131.7	1191.4	1205.9	1354.0	1335.8	1207.7	1360.4	1475.2
55°	1192.5	1188.4	1186.3	1205.7	1287.7	1298.1	1459.6	1417.9	1273.5	1445.5	1556.1
57.5°	1271.4	1263.9	1285.1	1298.4	1401.0	1417.1	1570.0	1503.7	1331.3	1513.1	1595.5
60°	1373.6	1369.6	1389.0	1413.0	1527.6	1552.0	1695.8	1576.8	1377.7	1547.1	1573.8
62.5°	1526.4	1525.9	1522.3	1573.6	1707.1	1729.6	1840.2	1648.1	1385.0	1521.7	1462.2
65°	1745.4	1737.7	1706.0	1762.1	1930.4	1956.7	1990.5	1687.9	1341.1	1391.0	1231.2
67.5°	1974.5	1974.0	1948.4	2021.1	2251.0	2278.2	2178.5	1679.1	1219.4	1126.8	874.4
70°	2164.4	2155.2	2187.9	2381.7	2660.7	2692.1	2343.0	1575.8	971.3	744.1	519.6
72.5°	2210.0	2210.4	2278.4	2659.8	3054.0	3058.9	2402.3	1277.2	650.0	410.5	259.9
74°	2069.7	2073.3	2178.7	2673.7	3127.4	3105.1	2250.8	1003.8	439.6	268.0	187.4
75°	1889.1	1866.2	2018.8	2581.1	3051.2	3027.3	2073.5	805.5	335.4	214.1	164.1
77.5°	1010.0	1033.3	1268.6	1926.1	2478.8	2451.3	1405.9	386.3	181.2	149.1	118.1
80°	359.6	396.6	557.4	1007.9	1589.2	1597.8	671.0	177.1	127.5	109.9	83.4
82.5°	146.7	150.8	239.4	447.3	807.0	814.7	274.0	105.2	91.1	75.7	49.8
85°	57.3	59.0	105.9	201.1	344.4	366.8	94.8	55.6	56.0	43.4	25.5
87.5°	19.3	21.8	43.4	66.9	117.0	114.6	27.6	16.5	20.1	18.8	7.9
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°	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5	589.5
2.5°	591.4	595.5	598.3	601.3	604.0	604.9	604.3	606.2	606.4	606.6	606.8
5°	594.8	600.4	605.8	608.7	610.0	609.0	605.3	603.4	601.7	600.4	600.8
7.5°	599.6	607.5	612.4	613.7	610.2	605.3	596.3	589.3	584.8	581.8	581.6
10°	606.8	614.5	618.6	615.0	605.5	593.6	579.4	566.2	556.1	553.1	552.9
12.5°	616.0	624.8	624.6	613.9	597.4	576.0	553.1	537.7	524.0	517.2	520.0
15°	628.0	634.6	628.4	609.2	583.1	553.8	525.5	504.6	489.2	481.9	482.3
17.5°	641.9	647.7	631.2	600.8	563.0	525.3	492.6	472.7	460.5	455.2	454.7
20°	659.2	660.9	631.2	586.3	537.1	492.2	460.9	447.0	440.2	437.4	438.3
22.5°	677.8	674.4	627.8	565.8	503.1	457.5	436.6	430.4	426.9	426.5	426.9
25°	698.8	689.2	620.7	537.9	467.6	427.6	415.4	416.5	417.1	417.1	418.6
27.5°	724.5	705.2	609.0	502.9	426.1	399.8	396.3	403.8	407.3	407.9	409.0
30°	758.3	722.8	589.5	459.0	390.8	374.7	380.7	390.8	394.6	397.0	396.6
32.5°	798.5	742.0	563.2	415.2	362.3	357.2	364.5	374.7	379.0	380.3	378.6
35°	845.7	763.8	528.5	374.1	337.5	340.5	349.1	352.3	356.1	356.1	357.0
37.5°	896.7	781.4	486.2	336.5	318.3	329.2	335.4	332.4	330.7	328.5	329.6
40°	948.4	794.4	431.2	299.2	299.0	317.4	319.1	310.6	303.7	301.6	300.5
42.5°	993.5	802.5	381.6	270.4	280.8	305.9	307.2	293.5	282.6	276.1	274.0
45°	1046.8	812.0	333.0	246.4	263.9	296.7	299.9	281.5	265.4	252.0	248.5
47.5°	1119.7	833.3	294.7	227.8	251.8	290.9	295.4	271.6	250.5	232.9	230.2
50°	1202.1	862.6	265.0	215.2	242.3	285.8	291.3	261.6	236.6	217.1	215.0
52.5°	1277.6	878.5	239.4	203.8	233.1	276.4	286.0	254.3	222.9	201.3	199.4
55°	1318.9	852.8	214.1	192.7	220.5	264.2	278.5	244.3	209.6	192.9	190.2
57.5°	1324.4	799.8	191.2	180.7	207.3	249.2	264.6	232.1	201.1	187.2	184.8
60°	1281.5	720.6	173.5	170.9	193.8	232.3	249.0	221.4	192.3	180.7	178.4
62.5°	1174.5	634.6	161.1	161.9	180.1	214.5	237.4	211.1	184.0	173.7	171.5
65°	990.6	523.8	149.1	152.7	167.9	200.6	226.9	202.6	175.6	168.3	166.4
67.5°	688.1	378.2	139.2	143.1	156.4	186.5	214.8	193.4	166.2	162.3	159.4
70°	380.9	232.7	127.7	132.2	144.4	170.7	201.1	179.5	152.5	150.8	146.5
72.5°	200.2	148.2	114.6	119.6	128.1	150.4	180.1	164.3	139.0	131.8	126.2
74°	156.4	121.5	105.9	111.0	116.8	138.4	167.7	153.4	129.4	120.9	116.6
75°	136.3	108.2	98.4	105.0	110.2	130.3	158.1	145.7	124.1	115.9	112.1
77.5°	96.3	81.1	80.4	88.3	91.1	114.2	142.5	132.6	110.6	102.0	98.4
80°	67.6	60.7	63.7	68.7	72.5	101.0	132.2	114.6	90.7	80.6	79.4
82.5°	44.1	39.8	45.6	50.1	51.3	74.4	106.7	87.1	66.1	53.7	49.8
85°	20.3	19.9	26.1	25.5	25.2	36.4	63.3	50.9	38.1	28.4	26.7
87.5°	5.1	4.9	6.4	5.3	6.4	5.6	5.8	1.5	0.2	0.0	0.0
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)