

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: P647705

Luminaire Tested: **GALN-SA1A-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3659 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

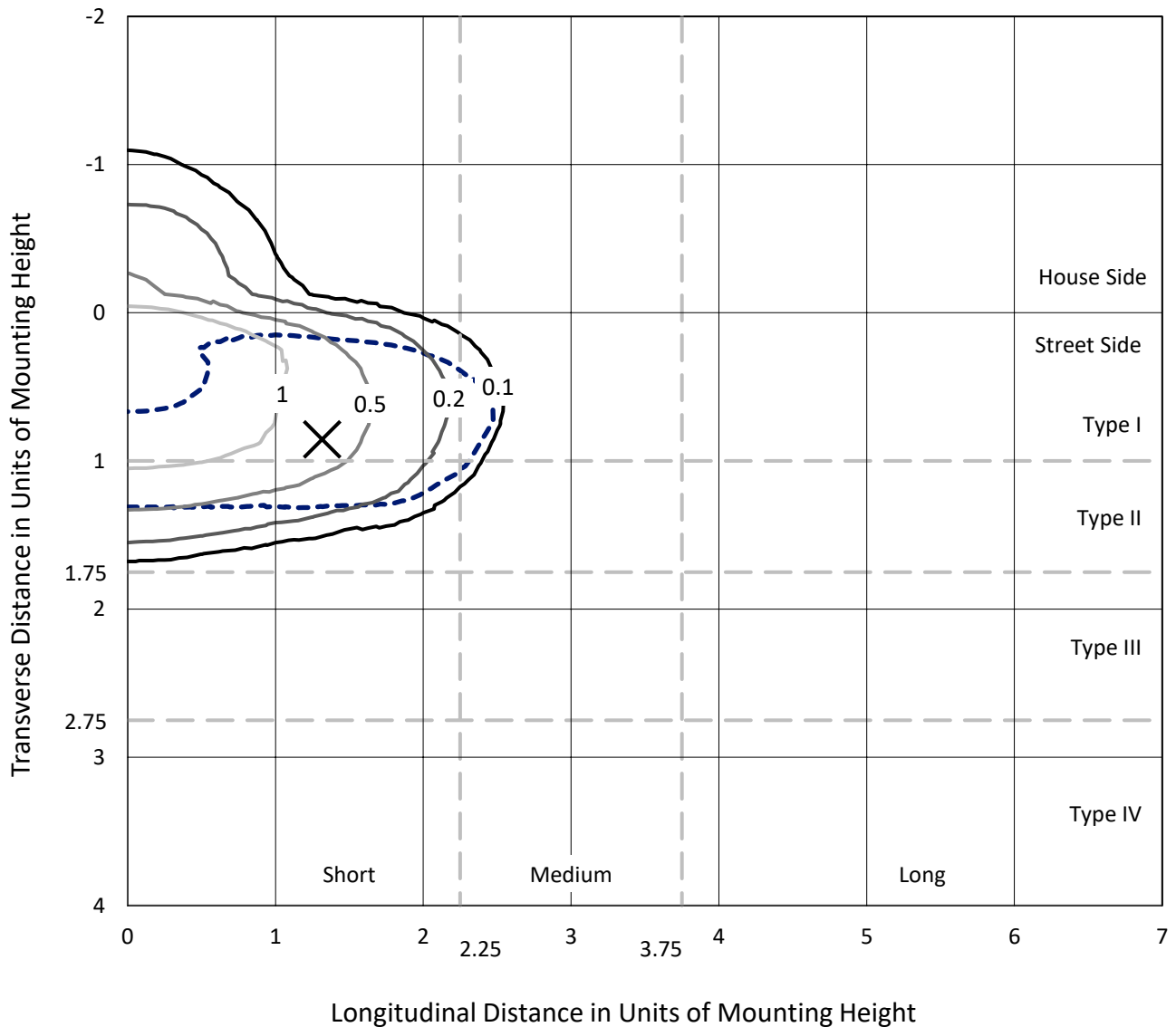
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

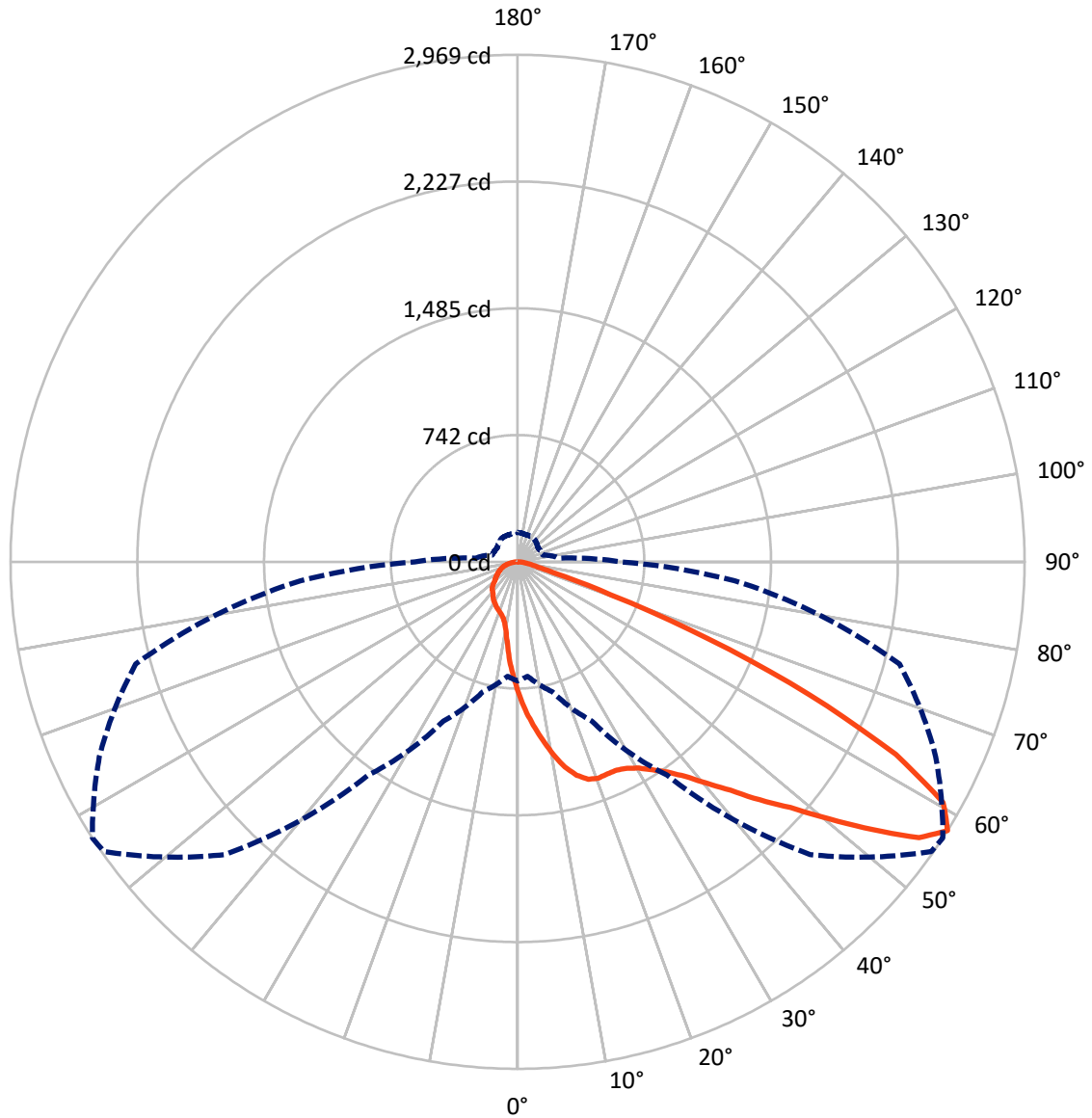
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.4	0.0	556.4
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3102.5	0.0	3102.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	3659.0	0.0	3659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	2.0
10°-20°	217.7	6.0
20°-30°	361.5	9.9
30°-40°	544.6	14.9
40°-50°	817.6	22.3
50°-60°	916.5	25.0
60°-70°	536.4	14.7
70°-80°	158.7	4.3
80°-90°	32.1	0.9
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°	3659.0	100.0
0°-180°	3659.0	100.0

Coefficient of Utilization

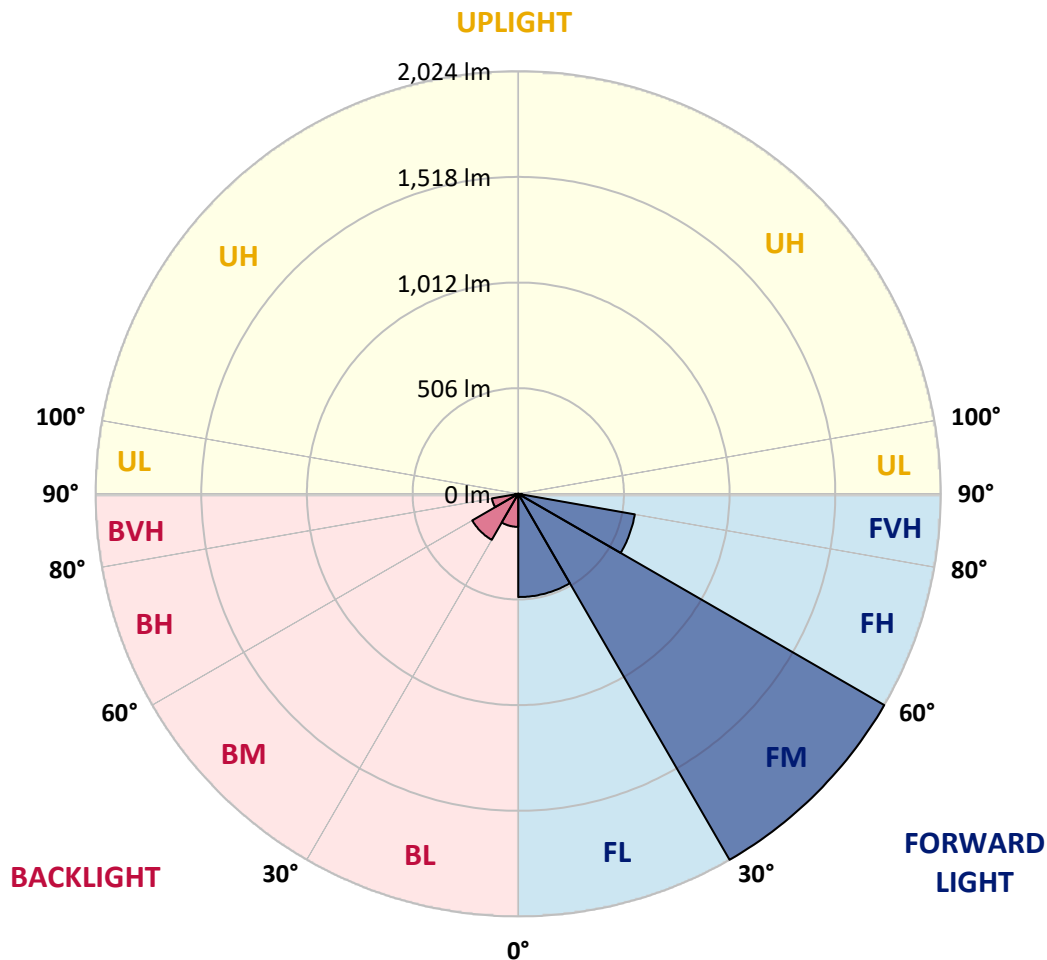


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.6	13.5			
FM (30°-60°)	2024.3	55.3			
FH (60°-80°)	567.0	15.5			G0/660
FVH (80°-90°)	16.6	0.5			G1/100
BL (0°-30°)	158.5	4.3	B1/500		
BM (30°-60°)	254.4	7.0	B1/1000		
BH (60°-80°)	128.0	3.5	B1/500		G1/500
BVH (80°-90°)	15.4	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7
2.5°	955.2	944.8	936.5	929.3	919.9	894.5	869.1	868.7	848.5	817.1	785.1
5°	1110.8	1096.7	1098.5	1076.2	1053.7	1016.9	963.0	960.2	917.1	858.6	799.1
7.5°	1212.2	1212.3	1206.8	1193.9	1169.6	1127.8	1066.8	1052.9	993.0	904.3	815.2
10°	1206.9	1212.3	1221.8	1232.8	1240.2	1219.5	1163.9	1147.0	1069.1	959.6	833.0
12.5°	1137.6	1146.1	1159.5	1187.1	1231.7	1265.8	1246.8	1233.1	1157.3	1014.7	852.6
15°	1094.4	1099.4	1106.8	1125.4	1173.5	1255.0	1304.2	1297.0	1240.4	1076.9	874.7
17.5°	1081.2	1086.2	1088.5	1100.0	1134.3	1217.7	1326.9	1339.7	1314.1	1134.3	896.9
20°	1094.4	1096.7	1096.7	1103.6	1130.4	1196.0	1325.9	1351.8	1374.6	1202.9	917.8
22.5°	1129.0	1130.0	1128.6	1131.0	1151.1	1201.9	1316.5	1348.6	1423.4	1261.2	934.0
25°	1185.3	1186.9	1177.7	1172.1	1186.7	1228.4	1321.7	1351.1	1461.7	1316.9	944.8
27.5°	1249.2	1251.2	1240.0	1227.0	1233.8	1261.0	1342.1	1368.6	1490.4	1371.7	951.6
30°	1327.5	1328.3	1309.5	1293.8	1289.4	1309.6	1377.0	1401.6	1526.0	1436.5	961.8
32.5°	1407.6	1413.6	1389.4	1367.4	1360.0	1366.2	1428.4	1452.3	1568.4	1505.9	978.2
35°	1516.6	1517.6	1488.6	1461.7	1437.3	1445.3	1494.4	1511.6	1627.2	1586.3	1001.5
37.5°	1652.6	1661.8	1621.7	1571.6	1541.6	1530.0	1574.1	1592.9	1709.4	1684.9	1036.5
40°	1803.6	1807.0	1772.7	1741.5	1686.7	1653.0	1683.4	1703.9	1811.0	1802.4	1077.2
42.5°	1898.5	1906.0	1908.6	1905.4	1864.1	1807.6	1819.2	1828.9	1931.2	1912.7	1118.8
45°	1930.6	1941.6	1978.9	2057.7	2062.2	2006.5	1979.4	1988.7	2062.2	2024.1	1158.7
47.5°	1877.5	1896.3	1965.0	2126.9	2248.1	2252.2	2170.7	2150.5	2181.5	2116.4	1187.5
50°	1740.3	1744.3	1849.4	2083.8	2335.1	2487.2	2402.9	2365.2	2294.9	2184.7	1207.3
52.5°	1528.0	1532.6	1620.7	1883.7	2281.5	2651.4	2674.4	2607.2	2410.1	2237.8	1220.4
55°	1134.3	1160.9	1257.8	1512.0	2027.1	2636.0	2890.4	2852.1	2549.3	2279.9	1240.8
57.5°	697.4	673.0	787.9	1028.7	1524.6	2424.1	2957.1	2969.4	2702.5	2315.1	1275.0
60°	320.9	325.6	373.1	530.6	929.3	1896.3	2785.2	2863.7	2787.2	2313.9	1283.7
62.5°	221.1	216.7	204.7	232.9	423.8	1199.3	2352.6	2485.6	2617.3	2242.0	1249.4
65°	197.7	193.2	170.1	162.2	194.7	522.7	1710.2	1878.1	2203.8	2060.5	1164.1
67.5°	184.6	178.7	154.6	139.4	139.0	208.1	1008.4	1210.5	1634.5	1742.1	1008.7
70°	171.0	166.2	142.4	125.6	118.4	130.8	443.3	580.2	1061.4	1255.4	785.7
72.5°	157.5	151.8	130.4	112.4	103.0	98.0	169.8	220.9	599.7	752.7	481.7
75°	137.6	134.8	116.6	101.7	91.5	79.1	107.7	123.0	286.8	345.7	241.7
77.5°	120.3	117.4	103.5	88.9	81.5	64.3	76.5	83.5	121.0	140.2	109.2
80°	88.2	91.1	87.3	78.5	72.7	50.5	51.4	57.3	71.9	79.6	66.7
82.5°	55.9	61.5	67.3	60.5	55.0	39.9	35.6	37.8	49.1	52.1	29.7
85°	23.4	23.8	39.1	36.9	31.5	23.6	21.5	22.6	26.2	27.4	13.8
87.5°	9.0	8.8	13.8	12.8	9.8	6.8	6.8	7.6	10.4	9.6	4.4
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°	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7
2.5°	771.3	757.1	728.8	693.8	668.1	639.3	613.9	595.6	588.8	585.6	579.7
5°	770.7	742.7	684.2	622.9	573.6	523.1	480.5	452.9	450.5	432.1	430.2
7.5°	770.9	728.0	634.9	544.8	469.6	418.0	382.7	373.6	362.5	359.7	361.1
10°	771.5	709.4	582.0	467.5	394.8	360.9	347.7	344.1	344.5	345.7	345.9
12.5°	772.3	691.4	527.2	408.8	352.7	338.7	337.3	340.5	343.9	346.5	347.1
15°	773.3	670.8	473.7	361.5	331.7	330.5	335.0	340.5	345.3	349.1	349.7
17.5°	772.1	646.8	428.8	332.5	320.1	325.9	333.5	340.3	344.7	348.3	348.7
20°	769.3	619.9	385.5	312.0	312.9	322.3	330.5	336.8	341.7	343.5	344.9
22.5°	758.5	587.9	347.9	296.2	304.3	317.3	327.1	330.9	325.5	321.7	322.7
25°	740.1	546.2	312.9	283.4	296.4	310.2	320.2	311.1	306.6	305.1	305.8
27.5°	717.0	500.5	286.4	270.0	286.4	302.5	299.7	298.0	296.1	293.4	294.0
30°	692.2	455.9	263.9	259.6	275.6	284.8	286.0	288.6	286.4	282.4	284.0
32.5°	669.2	413.8	247.0	250.8	268.0	266.6	275.6	278.6	268.4	254.9	255.6
35°	649.5	374.7	234.1	242.2	254.9	255.6	264.6	254.2	243.1	236.8	237.2
37.5°	634.7	344.3	225.7	234.7	238.3	245.9	241.2	235.8	234.4	230.0	230.1
40°	625.9	317.7	220.3	228.9	228.3	233.6	218.1	223.5	225.5	224.1	224.3
42.5°	617.1	298.8	214.7	220.9	220.7	210.5	207.1	211.7	216.9	217.5	217.1
45°	610.1	284.2	208.9	208.7	212.7	196.7	195.7	198.5	205.9	209.5	209.3
47.5°	602.3	272.0	200.1	194.5	195.7	188.1	186.4	187.7	196.7	202.5	204.1
50°	592.4	259.8	189.1	181.5	176.5	180.1	180.5	180.6	189.6	196.3	197.7
52.5°	584.7	250.6	176.5	170.9	164.8	172.9	175.9	176.3	181.7	187.1	188.1
55°	589.3	245.3	164.0	160.0	154.6	165.4	171.2	172.0	173.3	177.3	177.8
57.5°	603.1	246.6	154.0	148.8	144.8	156.6	166.5	167.0	166.2	171.0	171.9
60°	607.3	245.9	146.6	136.4	134.0	147.2	159.4	160.6	160.4	167.4	168.8
62.5°	589.7	238.3	139.2	126.0	124.3	137.6	149.6	154.4	155.4	165.4	167.2
65°	548.2	222.7	129.4	114.9	114.9	127.4	140.2	146.8	149.6	163.0	165.1
67.5°	493.5	204.3	119.4	105.5	105.2	117.6	130.2	137.0	141.4	159.7	160.8
70°	409.6	179.5	107.0	95.4	95.4	106.6	118.0	126.2	132.6	153.2	153.2
72.5°	280.6	149.2	91.9	83.7	83.9	94.4	105.9	115.2	122.8	140.4	140.8
75°	177.4	116.6	75.5	71.3	72.1	81.9	94.0	103.5	118.8	138.8	139.4
77.5°	94.4	81.9	60.1	59.1	60.1	69.1	82.5	95.8	119.2	120.3	118.4
80°	61.1	58.1	47.4	45.5	45.9	55.7	73.5	90.9	95.8	96.9	92.6
82.5°	33.3	36.9	33.7	31.6	31.6	43.5	62.7	72.3	68.7	57.1	54.5
85°	14.3	17.2	17.5	15.2	14.6	26.9	42.0	39.5	36.6	35.1	34.7
87.5°	4.0	5.6	5.6	4.2	3.2	7.4	8.4	2.4	0.0	0.2	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)