

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: P450587

Luminaire Tested: **GALN-SA1B-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4314 lumens
Efficiency: N/A
Efficacy: 98.0 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

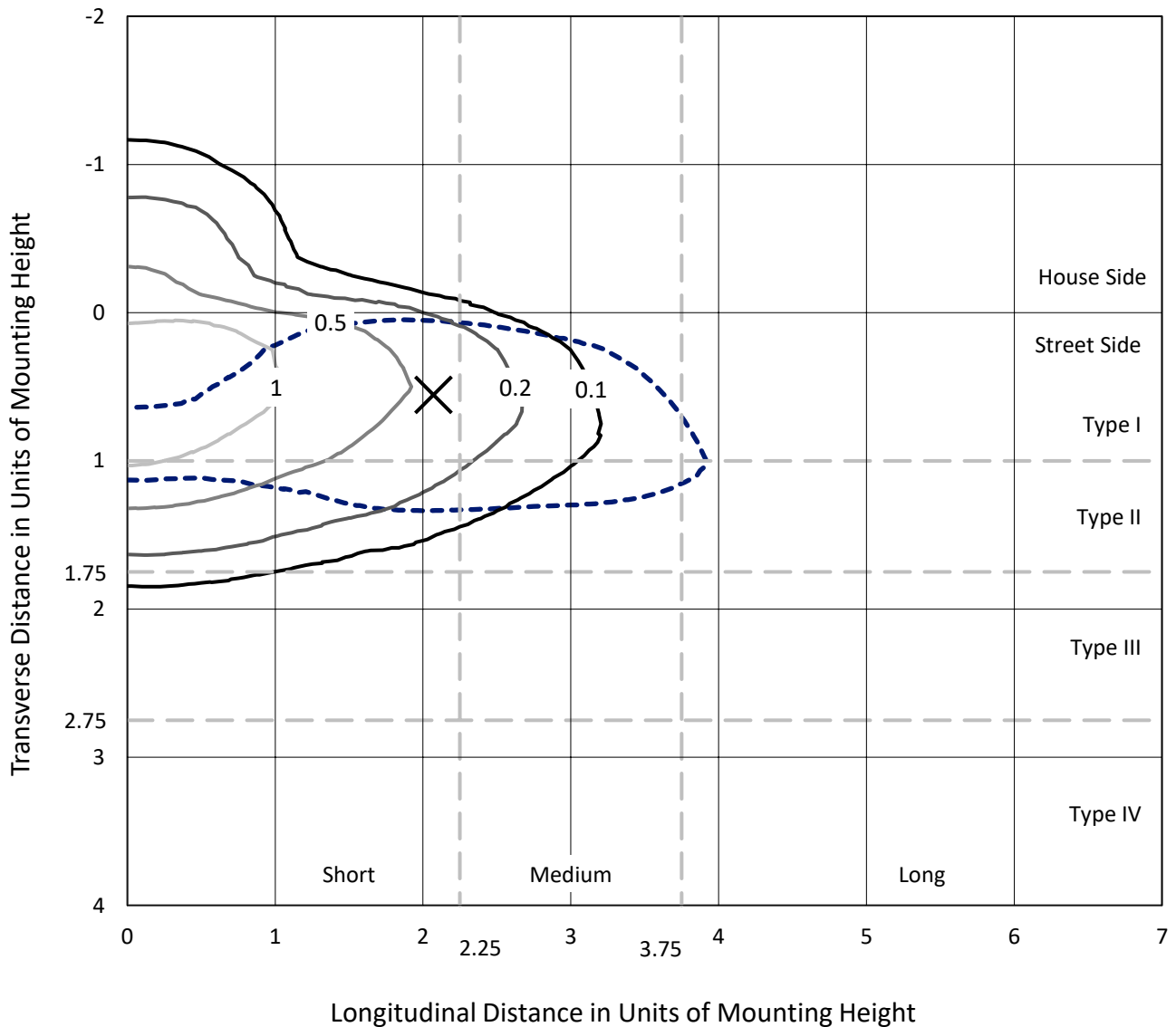
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450587
 CATALOG NUMBER: GALN-SA1B-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

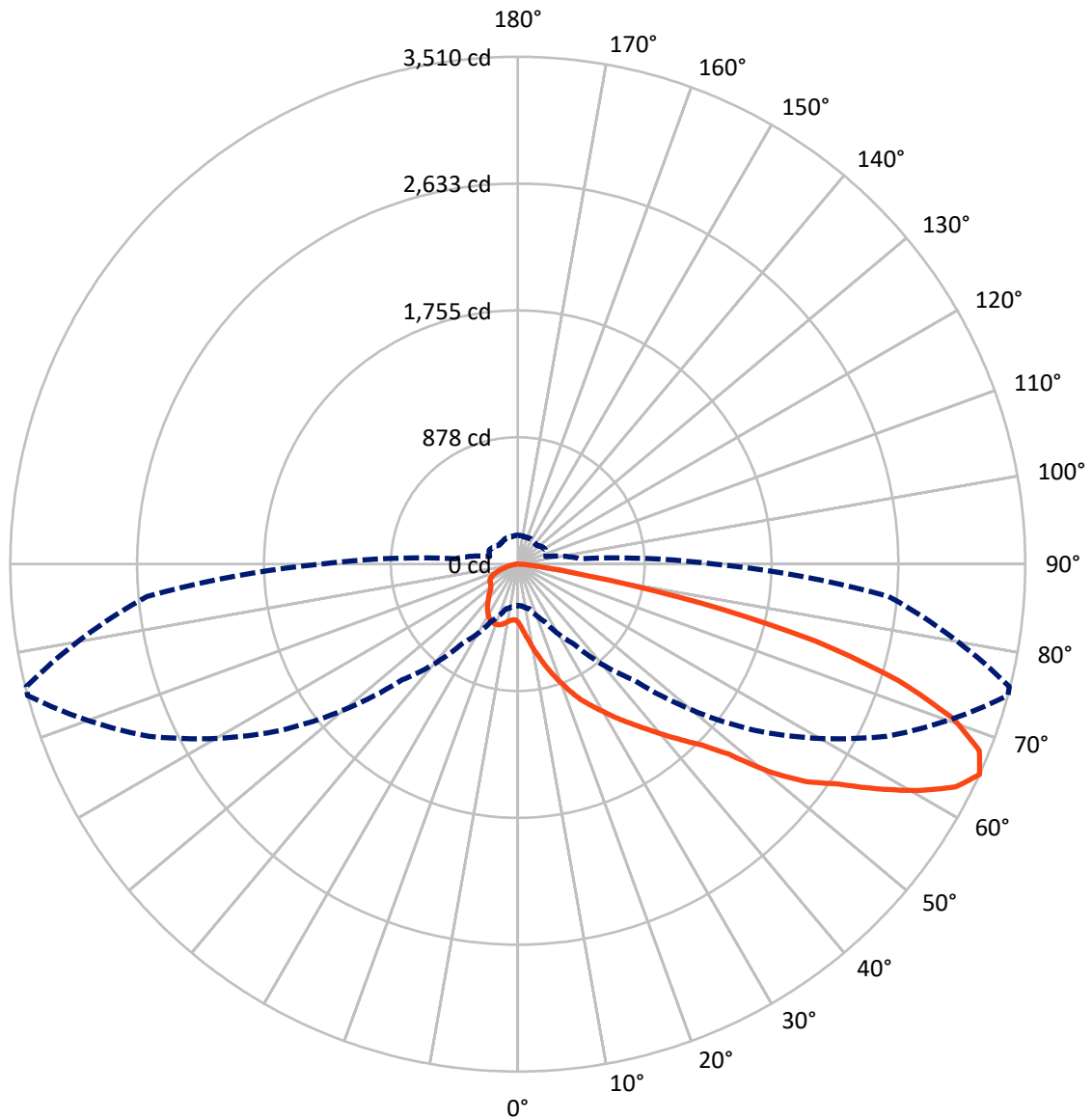
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

REPORT NUMBER: P450587
CATALOG NUMBER: GALN-SA1B-827-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P450587

CATALOG NUMBER: GALN-SA1B-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	725.2	0.0	725.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3588.8	0.0	3588.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	4314.0	0.0	4314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.1
10°-20°	190.7	4.4
20°-30°	368.5	8.5
30°-40°	598.5	13.9
40°-50°	823.3	19.1
50°-60°	972.0	22.5
60°-70°	851.6	19.7
70°-80°	406.6	9.4
80°-90°	54.1	1.3
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°	4314.0	100.0
0°-180°	4314.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450587

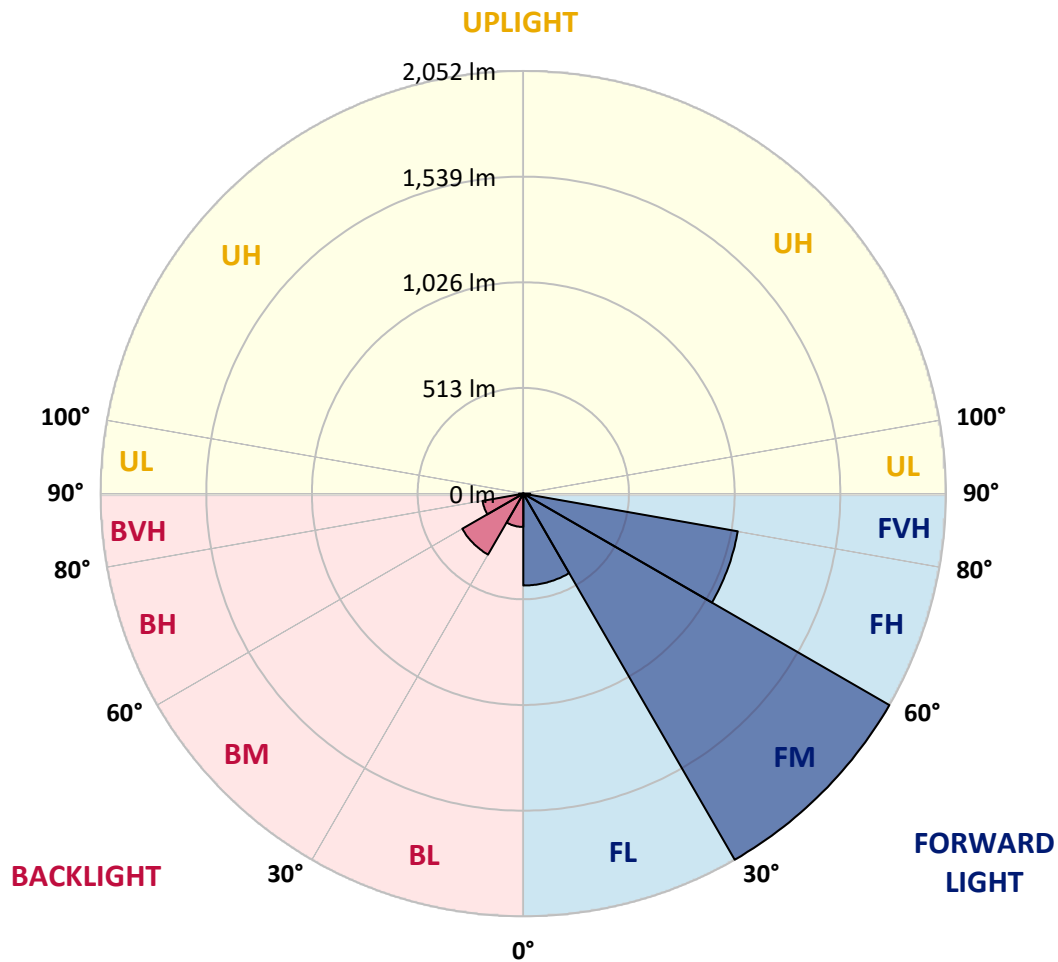
CATALOG NUMBER: GALN-SA1B-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.0	10.3			
FM (30°-60°)	2051.8	47.6			
FH (60°-80°)	1057.1	24.5			G1/1800
FVH (80°-90°)	33.8	0.8			G1/100
BL (0°-30°)	161.9	3.8	B1/500		
BM (30°-60°)	341.9	7.9	B1/1000		
BH (60°-80°)	201.1	4.7	B1/500		G1/500
BVH (80°-90°)	20.3	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 Short





REPORT NUMBER: P450587

CATALOG NUMBER: GALN-SA1B-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8
2.5°	532.6	529.1	525.3	515.0	504.0	491.6	473.8	456.7	434.1	433.3	416.5
5°	680.2	677.9	661.3	651.7	626.2	592.2	563.4	518.8	477.3	472.4	439.7
7.5°	815.9	806.8	800.5	783.2	757.9	714.4	658.7	598.3	529.1	522.5	468.2
10°	918.2	917.2	914.0	899.0	880.0	836.7	775.0	688.4	594.6	581.7	502.8
12.5°	994.7	995.4	994.9	994.7	981.1	944.4	877.5	786.2	660.8	651.7	542.9
15°	1045.0	1052.0	1054.8	1066.5	1067.7	1043.1	985.6	880.7	735.4	721.9	585.9
17.5°	1078.2	1081.7	1094.8	1114.7	1130.9	1126.4	1075.2	968.3	811.7	789.0	630.6
20°	1110.0	1116.1	1126.2	1153.3	1181.9	1195.0	1159.0	1057.9	887.3	872.8	680.0
22.5°	1176.3	1184.9	1188.4	1202.2	1226.6	1249.7	1233.4	1143.7	970.1	950.5	732.4
25°	1288.3	1297.5	1287.6	1284.4	1292.3	1303.8	1300.3	1224.7	1048.3	1020.2	782.0
27.5°	1434.4	1435.5	1416.3	1398.1	1378.4	1372.6	1361.8	1296.5	1116.1	1092.7	831.8
30°	1591.1	1585.5	1553.7	1520.7	1487.5	1454.7	1423.8	1365.8	1191.7	1164.8	880.7
32.5°	1736.7	1733.6	1698.3	1647.1	1590.9	1560.0	1497.5	1435.8	1272.7	1246.7	931.0
35°	1845.7	1850.2	1811.3	1755.4	1694.1	1666.7	1587.9	1509.2	1356.4	1328.1	985.8
37.5°	1923.2	1920.8	1886.4	1838.0	1784.2	1760.3	1693.4	1589.5	1446.5	1419.4	1045.7
40°	1950.8	1949.4	1923.9	1888.5	1854.4	1845.9	1803.8	1676.1	1549.7	1517.9	1117.8
42.5°	1933.2	1936.3	1919.4	1909.8	1903.5	1909.6	1913.6	1789.6	1662.3	1633.0	1195.9
45°	1879.4	1877.8	1875.4	1891.1	1926.7	1966.7	2022.1	1896.7	1784.6	1761.2	1300.8
47.5°	1783.2	1794.9	1800.8	1844.1	1921.8	2016.5	2147.1	2040.4	1962.2	1941.9	1460.6
50°	1648.7	1658.1	1692.7	1769.7	1885.5	2035.2	2269.2	2275.3	2258.5	2220.3	1634.2
52.5°	1438.6	1453.1	1524.4	1665.5	1811.1	2027.5	2343.2	2476.8	2499.0	2470.5	1805.2
55°	1203.4	1223.8	1299.1	1484.2	1708.6	1985.4	2394.2	2593.5	2682.2	2655.8	1970.0
57.5°	973.2	994.7	1072.1	1251.4	1529.8	1892.3	2427.6	2723.6	2931.7	2897.3	2174.9
60°	729.3	751.8	818.3	1002.9	1275.2	1710.2	2405.0	2836.4	3180.9	3166.1	2380.1
62.5°	470.6	495.4	553.2	705.9	980.2	1461.5	2283.5	2898.7	3396.6	3378.8	2529.9
65°	286.6	289.4	321.3	438.3	670.8	1131.6	2005.8	2816.1	3510.3	3504.9	2575.5
67.5°	185.3	189.8	204.3	262.5	402.2	786.0	1603.8	2543.5	3443.9	3442.0	2481.2
70°	156.5	157.9	164.5	177.1	233.8	476.6	1126.2	2109.0	3191.4	3191.4	2254.5
72.5°	139.9	141.8	144.1	148.1	166.8	270.0	672.0	1641.7	2755.5	2773.7	1919.0
75°	127.1	126.6	128.0	128.7	142.3	176.4	347.5	1214.2	2131.7	2095.1	1389.7
77.5°	108.8	109.5	108.8	111.8	125.7	134.3	176.4	814.8	1291.9	1244.6	697.5
80°	89.4	90.6	91.7	93.6	107.4	102.0	106.0	371.3	477.8	467.7	215.5
82.5°	67.2	68.8	70.7	75.1	84.5	67.4	66.9	158.6	172.5	157.9	79.3
85°	27.1	32.1	48.4	52.9	53.1	37.0	41.2	66.2	70.4	68.8	31.1
87.5°	6.3	7.5	15.7	23.6	21.8	13.8	15.2	21.5	24.6	22.7	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450587
 CATALOG NUMBER: GALN-SA1B-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8	400.8
2.5°	408.8	400.6	386.6	375.8	368.1	361.3	357.1	354.5	353.6	353.3	353.6
5°	422.6	408.1	385.8	371.8	364.1	359.6	357.1	356.8	357.1	357.3	356.6
7.5°	441.5	420.7	391.7	378.6	372.7	369.5	368.3	367.8	368.1	367.8	367.8
10°	466.8	438.3	403.2	389.6	384.7	380.9	379.1	377.9	377.0	376.0	375.6
12.5°	494.7	457.7	415.6	402.5	395.4	389.6	385.4	382.3	380.2	378.1	377.7
15°	525.8	478.3	429.4	411.1	401.1	392.4	385.1	380.2	376.5	373.4	373.2
17.5°	555.5	497.7	438.7	415.1	400.4	388.2	378.6	371.8	367.1	363.2	362.7
20°	587.3	516.2	442.9	412.5	393.3	378.6	366.0	357.8	352.4	347.9	347.2
22.5°	619.4	531.9	442.5	404.3	381.2	363.9	350.5	341.9	335.5	331.1	329.5
25°	650.0	544.5	436.6	391.2	364.3	346.3	332.7	324.8	319.2	313.8	313.8
27.5°	677.6	552.0	425.6	375.3	347.0	328.1	317.3	310.0	304.9	301.4	299.3
30°	704.8	555.5	410.7	355.2	328.8	312.6	304.0	299.7	295.1	291.1	290.6
32.5°	729.1	554.8	391.9	335.5	311.4	300.0	296.5	293.2	288.3	282.7	281.3
35°	752.7	550.1	369.7	314.0	296.9	292.5	293.4	288.7	279.9	272.8	271.7
37.5°	778.5	541.7	345.4	296.5	284.8	289.0	291.3	281.0	266.5	255.5	252.9
40°	808.2	532.1	320.1	278.9	275.2	285.7	285.7	266.7	246.9	240.1	238.2
42.5°	843.1	524.1	299.0	264.2	267.2	277.7	276.6	247.8	239.6	236.1	235.2
45°	898.3	521.3	277.3	251.3	260.7	268.4	258.8	241.2	236.6	233.8	232.8
47.5°	985.6	524.6	258.1	241.7	253.2	259.0	238.9	236.8	233.5	229.5	229.1
50°	1066.5	521.6	244.5	236.3	246.6	247.8	230.7	231.4	229.5	225.1	224.2
52.5°	1132.7	512.0	235.9	233.5	241.0	228.1	223.0	225.6	224.9	219.2	218.3
55°	1205.5	506.1	231.7	233.5	237.3	211.1	215.7	219.5	218.5	214.6	214.3
57.5°	1293.7	507.3	228.6	234.2	233.5	202.4	208.5	212.9	212.7	211.5	211.5
60°	1384.1	507.8	223.9	234.0	229.1	195.6	201.0	207.3	207.8	208.5	208.5
62.5°	1414.0	487.4	214.8	229.8	219.2	189.1	194.0	202.6	202.2	204.0	204.3
65°	1358.1	431.0	201.2	220.2	206.6	184.4	188.6	196.6	194.0	198.9	199.8
67.5°	1236.2	356.6	180.2	202.9	192.6	179.5	185.1	188.1	183.4	193.0	193.3
70°	1068.4	278.4	153.5	178.3	176.7	174.3	182.3	177.6	171.0	182.7	180.4
72.5°	893.4	212.7	122.6	145.8	155.4	166.6	177.4	164.0	154.9	158.4	154.2
75°	671.1	157.2	98.5	114.2	129.4	155.6	172.9	147.6	133.6	130.3	129.4
77.5°	342.1	102.7	73.7	85.4	97.1	140.6	166.8	128.5	110.7	105.5	103.2
80°	122.1	63.9	51.9	59.0	65.5	121.0	145.8	106.2	85.9	84.9	85.9
82.5°	56.6	41.2	34.9	38.6	38.8	80.7	111.1	79.3	65.3	99.2	83.8
85°	24.3	20.6	19.7	19.2	17.8	36.0	62.5	42.6	66.5	29.7	27.4
87.5°	7.3	8.2	7.3	5.4	4.0	4.0	6.3	2.3	1.6	1.2	1.2
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)