

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: P527384

Luminaire Tested: **GALN-SA2B-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7392 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

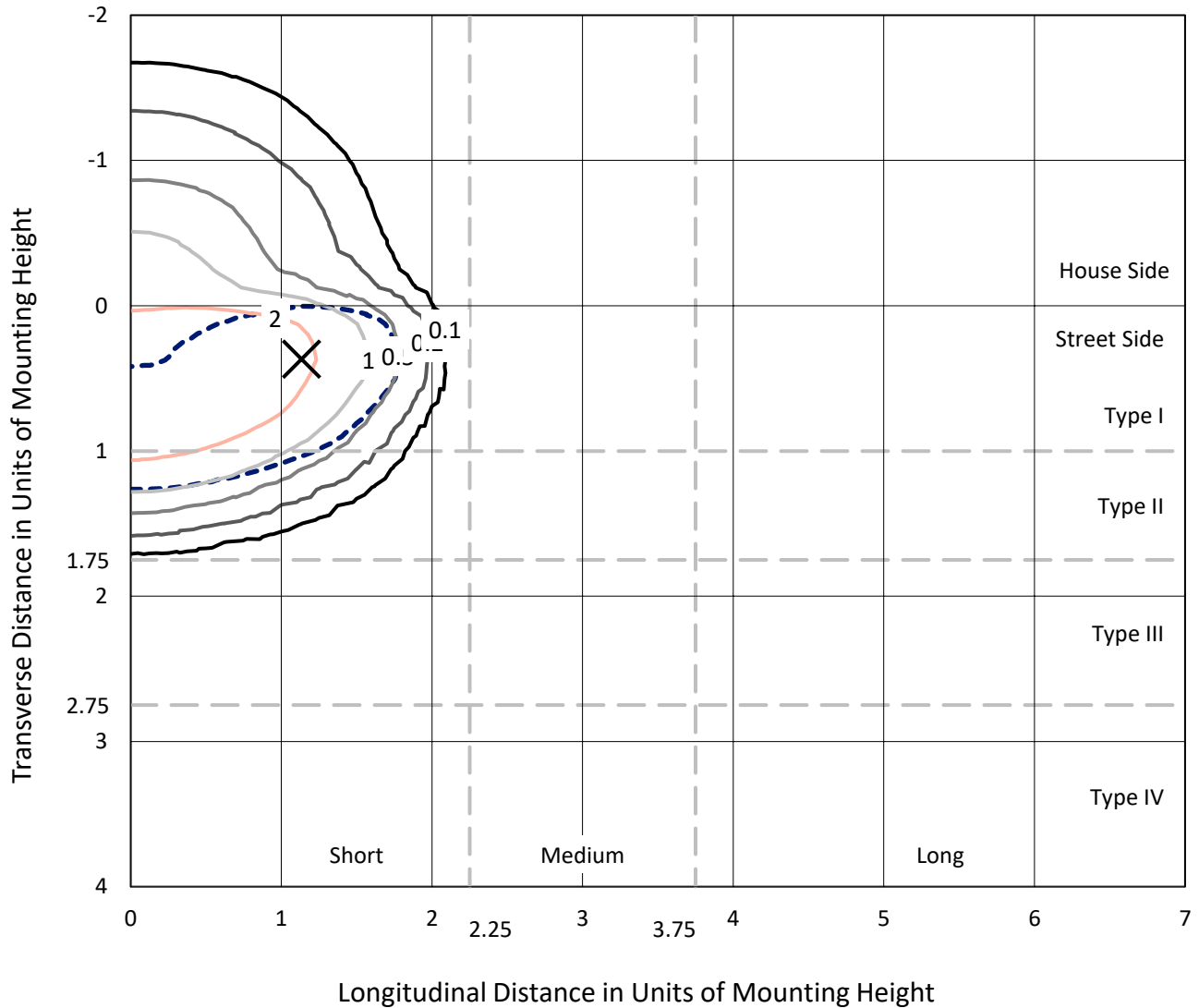
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527384
 CATALOG NUMBER: GALN-SA2B-827-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

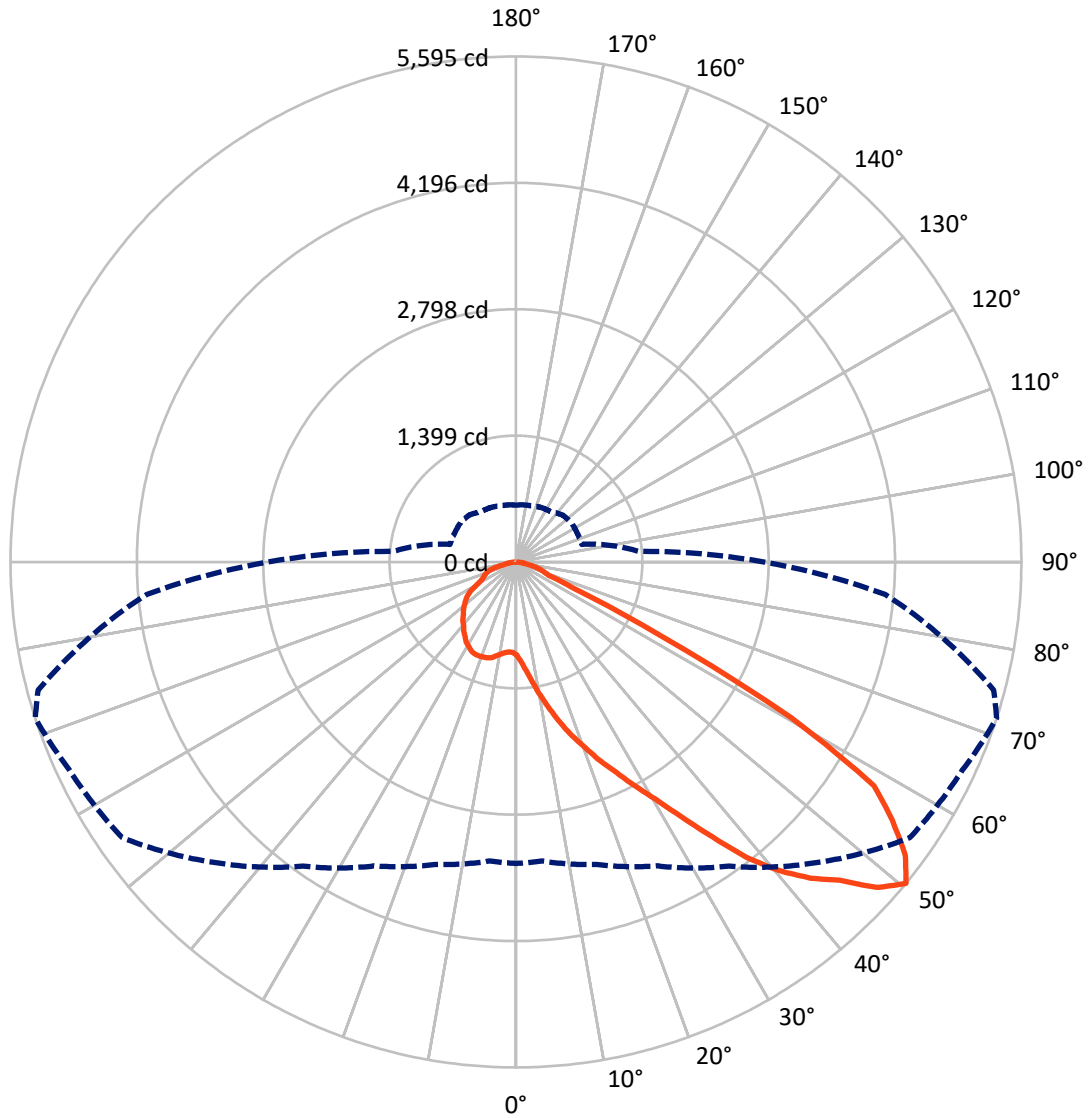
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P527384
CATALOG NUMBER: GALN-SA2B-827-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P527384
 CATALOG NUMBER: GALN-SA2B-827-U-T2R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1693.5	0.0	1693.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5698.5	0.0	5698.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	7392.0	0.0	7392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.6
10°-20°	452.5	6.1
20°-30°	877.3	11.9
30°-40°	1453.5	19.7
40°-50°	2033.7	27.5
50°-60°	1715.7	23.2
60°-70°	522.9	7.1
70°-80°	183.5	2.5
80°-90°	31.9	0.4
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°	7392.0	100.0
0°-180°	7392.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527384

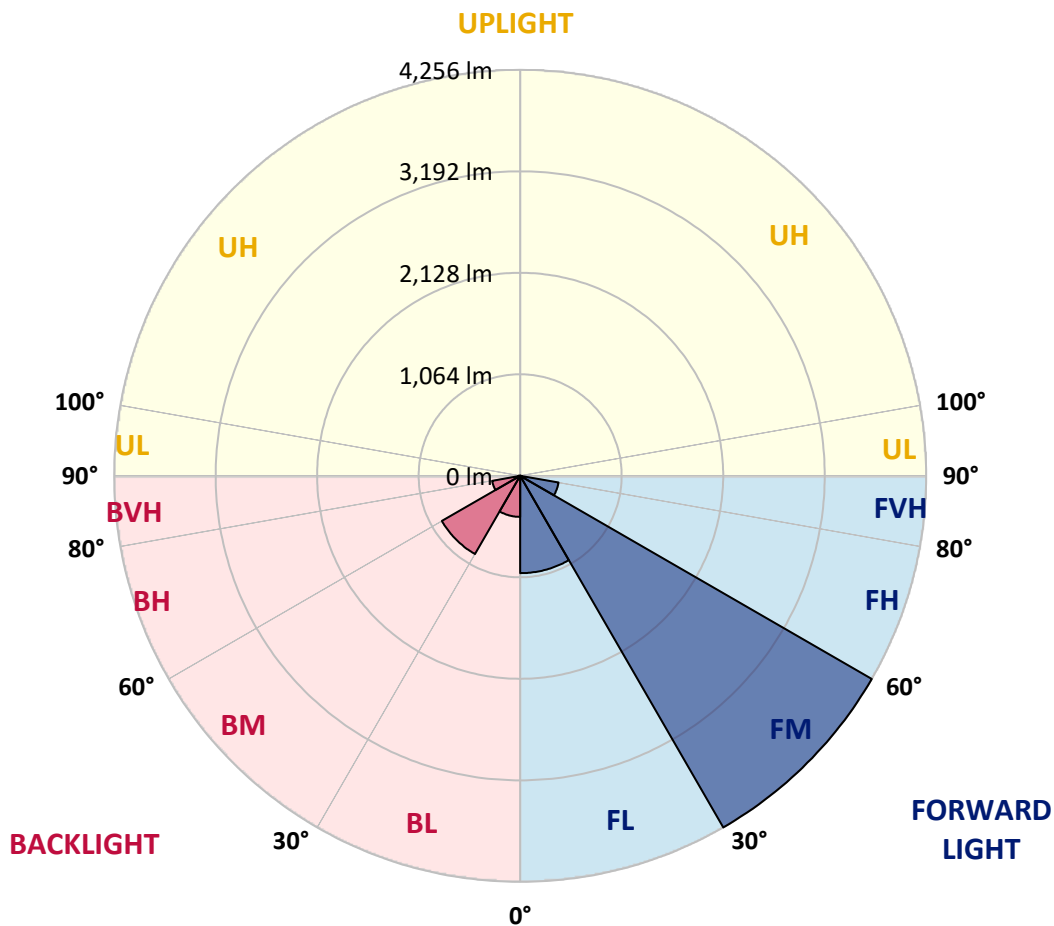
CATALOG NUMBER: GALN-SA2B-827-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.4	13.8			
FM (30°-60°)	4255.8	57.6			
FH (60°-80°)	408.0	5.5			G0/660
FVH (80°-90°)	14.3	0.2			G1/100
BL (0°-30°)	430.5	5.8	B1/500		
BM (30°-60°)	947.1	12.8	B1/1000		
BH (60°-80°)	298.4	4.0	B1/500		G1/500
BVH (80°-90°)	17.6	0.2			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: P527384

CATALOG NUMBER: GALN-SA2B-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1323.6	1315.3	1290.6	1282.4	1253.1	1200.1	1181.8	1127.8	1104.9	1083.9	1059.2
5°	1673.9	1635.5	1632.7	1586.1	1518.4	1479.1	1362.0	1283.3	1211.1	1174.5	1106.8
7.5°	1897.1	1898.0	1898.0	1859.6	1805.6	1705.9	1600.7	1458.9	1350.1	1296.1	1180.9
10°	2109.3	2091.0	2080.9	2077.3	2040.7	1943.7	1831.2	1655.6	1506.5	1443.4	1236.7
12.5°	2259.3	2243.7	2266.6	2254.7	2228.2	2165.1	2059.0	1858.7	1672.1	1587.0	1326.3
15°	2330.6	2341.6	2359.9	2392.8	2380.9	2357.2	2240.1	2067.2	1850.4	1754.4	1405.9
17.5°	2440.4	2410.2	2432.2	2473.3	2506.3	2495.3	2428.5	2218.1	2027.0	1909.0	1512.9
20°	2517.2	2499.9	2510.8	2558.4	2583.1	2645.3	2610.5	2415.7	2196.2	2071.8	1639.1
22.5°	2736.8	2711.1	2675.5	2682.8	2691.9	2735.8	2744.1	2632.5	2392.8	2261.1	1759.0
25°	3007.5	2983.7	2941.7	2898.7	2872.1	2863.9	2892.3	2802.6	2581.3	2445.0	1887.9
27.5°	3305.7	3265.5	3238.9	3150.2	3078.9	3067.9	3054.2	3005.7	2804.4	2657.2	2033.4
30°	3595.7	3563.6	3528.0	3386.2	3312.1	3300.2	3232.5	3246.2	3046.8	2883.1	2198.0
32.5°	3815.2	3817.9	3736.5	3629.5	3560.0	3496.9	3472.2	3511.5	3357.8	3226.1	2381.9
35°	3992.6	4000.9	3923.1	3826.2	3751.2	3795.1	3784.1	3802.4	3729.2	3568.2	2595.9
37.5°	4165.5	4124.3	4041.1	3994.5	3955.1	4027.4	4120.7	4136.2	4150.0	3960.6	2844.7
40°	4193.9	4197.5	4149.0	4182.0	4132.6	4241.4	4458.2	4438.1	4493.9	4328.3	3114.5
42.5°	4153.6	4161.9	4181.1	4227.7	4346.6	4477.4	4799.4	4717.1	4784.8	4637.5	3377.0
45°	4087.8	4053.9	4077.7	4255.2	4461.0	4751.8	5111.3	5047.3	5025.3	4901.8	3689.9
47.5°	3773.1	3807.9	3882.0	4100.6	4409.7	4799.4	5332.7	5318.0	5383.9	5297.0	3974.3
50°	3336.8	3323.1	3465.8	3711.8	4110.6	4706.1	5320.8	5453.4	5595.2	5474.4	4101.5
52.5°	2498.9	2572.1	2694.7	3000.2	3569.1	4197.5	5061.0	5282.4	5397.6	5372.0	3999.0
55°	1579.7	1601.6	1675.7	2038.9	2551.1	3368.8	4338.4	4851.5	5057.3	5153.4	3904.8
57.5°	767.4	726.3	816.8	1108.6	1473.6	2265.7	3345.9	4225.9	4673.2	4847.0	3699.9
60°	400.6	416.2	451.9	556.1	761.9	1176.3	2085.5	2816.3	3499.6	3766.7	2804.4
62.5°	332.0	337.5	361.3	413.4	506.7	676.9	1064.7	1373.0	1784.6	2025.1	1595.2
65°	281.7	284.5	310.1	344.8	404.3	476.6	547.9	573.5	694.3	712.5	567.1
67.5°	235.1	237.8	265.3	298.2	336.6	355.8	374.1	372.3	386.0	380.5	379.6
70°	181.1	183.9	212.2	247.0	266.2	255.2	311.9	324.7	330.2	334.8	342.1
72.5°	130.8	136.3	158.2	182.9	172.9	198.5	257.0	276.2	283.6	286.3	295.4
75°	95.1	97.0	102.4	95.1	109.8	138.1	181.1	204.9	214.0	216.8	230.5
77.5°	42.1	43.0	43.9	54.9	70.4	86.0	107.9	127.1	139.9	143.6	147.3
80°	22.0	22.9	28.4	37.5	50.3	63.1	78.7	89.6	97.9	98.8	102.4
82.5°	13.7	14.6	20.1	26.5	35.7	46.6	57.6	66.8	73.2	74.1	75.0
85°	6.4	8.2	11.9	16.5	23.8	30.2	31.1	26.5	28.4	29.3	27.4
87.5°	1.8	2.7	3.7	2.7	3.7	3.7	4.6	5.5	5.5	5.5	6.4
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: P527384

CATALOG NUMBER: GALN-SA2B-827-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1045.5	1037.3	1005.2	993.4	962.3	967.7	951.3	950.4	946.7	945.8	944.9
5°	1071.1	1045.5	1007.1	977.8	960.4	958.6	946.7	946.7	950.4	953.1	946.7
7.5°	1113.2	1083.9	1019.0	991.5	976.0	973.2	965.0	958.6	966.8	964.1	956.8
10°	1161.7	1110.4	1041.8	1018.1	992.4	986.0	986.0	988.8	975.1	979.6	972.3
12.5°	1215.6	1147.0	1071.1	1043.7	1013.5	1009.8	1008.0	987.9	995.2	991.5	973.2
15°	1284.2	1189.1	1108.6	1062.0	1036.3	1019.9	996.1	992.4	987.9	978.7	970.5
17.5°	1358.3	1234.8	1126.0	1067.4	1029.0	1017.1	998.8	979.6	965.9	967.7	961.3
20°	1421.4	1276.9	1132.4	1072.9	1023.5	1000.7	972.3	960.4	945.8	944.9	944.0
22.5°	1496.4	1333.6	1141.5	1058.3	1007.1	983.3	964.1	943.0	933.0	920.2	926.6
25°	1586.1	1355.6	1143.4	1050.1	995.2	953.1	943.0	920.2	916.5	898.2	901.9
27.5°	1651.0	1367.5	1128.7	1024.5	967.7	935.7	917.4	901.0	894.6	880.8	877.2
30°	1737.9	1385.8	1097.6	992.4	940.3	904.6	893.7	890.0	871.7	857.1	855.2
32.5°	1836.7	1397.7	1077.5	959.5	911.9	884.5	890.0	872.6	849.7	836.9	833.3
35°	1915.4	1402.2	1027.2	922.0	892.7	875.4	869.0	865.3	832.4	820.5	811.3
37.5°	2035.2	1392.2	985.1	895.5	871.7	865.3	859.8	835.1	797.6	780.2	767.4
40°	2175.1	1389.4	931.2	858.0	851.6	858.9	842.4	804.0	751.9	732.7	723.5
42.5°	2309.6	1408.6	897.3	837.9	829.6	832.4	809.5	751.9	726.3	715.3	700.7
45°	2534.6	1448.9	841.5	806.8	803.1	801.3	773.8	713.5	698.8	685.1	682.4
47.5°	2737.7	1422.3	805.8	774.7	778.4	768.3	709.8	690.6	674.1	660.4	655.8
50°	2749.6	1359.2	755.5	750.0	751.0	733.6	677.8	665.0	643.9	634.8	628.4
52.5°	2687.4	1255.9	708.9	710.7	713.5	685.1	638.5	629.3	611.9	599.1	595.5
55°	2512.7	1094.9	663.2	670.5	677.8	623.8	609.2	586.3	572.6	554.3	555.2
57.5°	2213.6	881.8	599.1	611.0	626.6	567.1	556.1	527.8	507.7	493.0	491.2
60°	1483.6	627.5	503.1	507.7	542.4	518.6	517.7	489.4	461.9	449.1	441.8
62.5°	875.4	479.3	434.5	429.9	429.0	442.7	465.6	455.5	419.8	395.1	402.5
65°	458.3	414.4	404.3	388.7	379.6	375.9	393.3	397.9	374.1	347.6	345.8
67.5°	385.1	385.1	376.9	371.4	358.6	343.0	332.0	317.4	313.7	306.4	297.3
70°	350.3	359.5	356.7	343.9	332.9	315.6	287.2	263.4	240.6	232.3	237.8
72.5°	305.5	314.7	314.7	308.3	293.6	267.1	239.6	212.2	193.0	178.4	176.5
75°	235.1	239.6	250.6	243.3	224.1	207.6	179.3	150.9	132.6	118.9	116.2
77.5°	150.0	157.3	157.3	156.4	142.7	127.1	108.8	88.7	75.0	64.9	62.2
80°	99.7	104.3	107.9	104.3	95.1	83.2	69.5	55.8	45.7	37.5	35.7
82.5°	73.2	78.7	81.4	77.7	68.6	59.5	49.4	39.3	29.3	22.9	21.0
85°	28.4	29.3	32.9	39.3	38.4	37.5	30.2	22.0	16.5	11.9	11.0
87.5°	7.3	6.4	7.3	7.3	6.4	5.5	5.5	5.5	5.5	2.7	3.7
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)