

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: STREETWORKS

Report Number: P522647

Luminaire Tested: **GLAN-SA1D-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5758 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
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



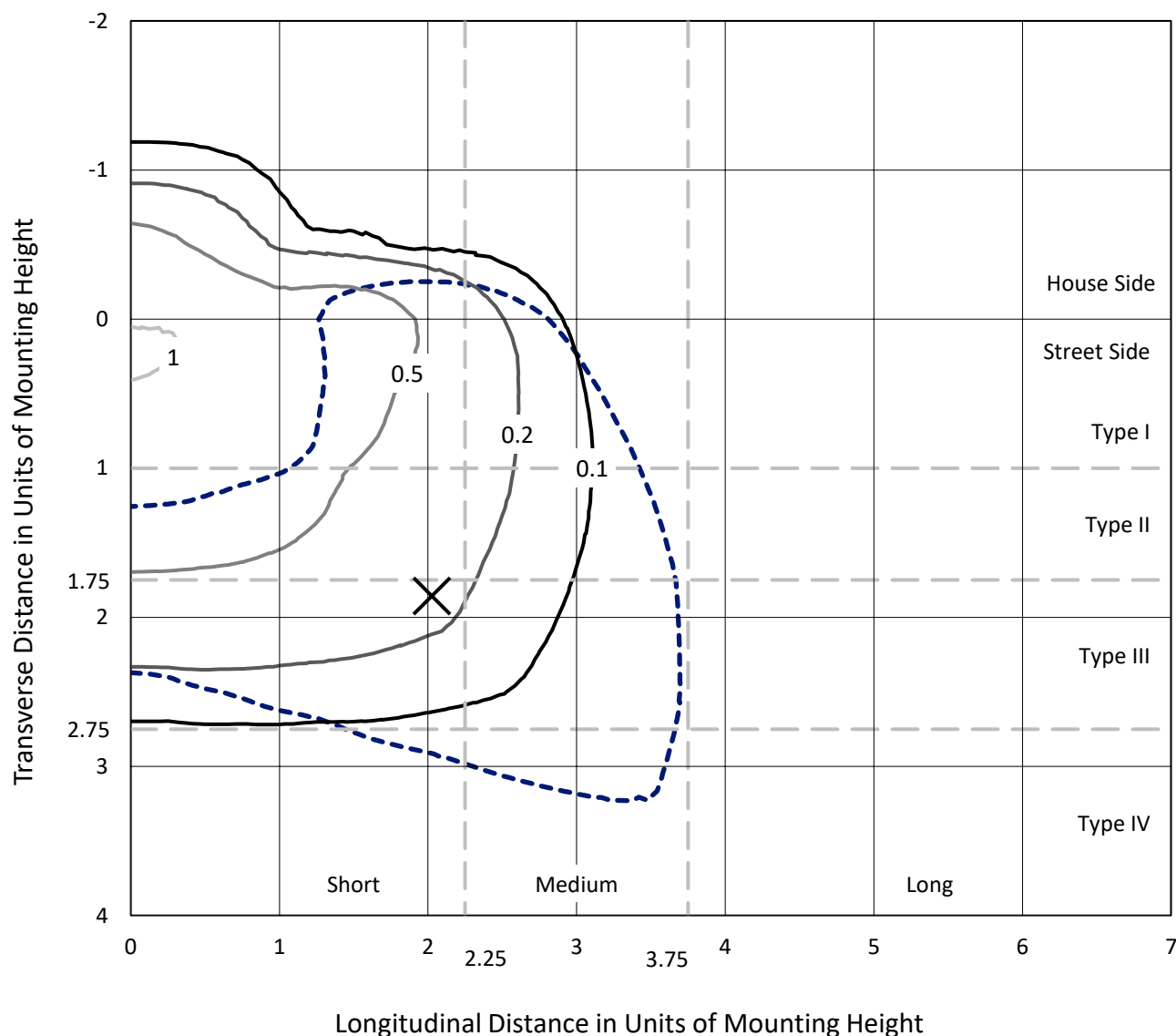
REPORT NUMBER: P522647

CATALOG NUMBER: GLAN-SA1D-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



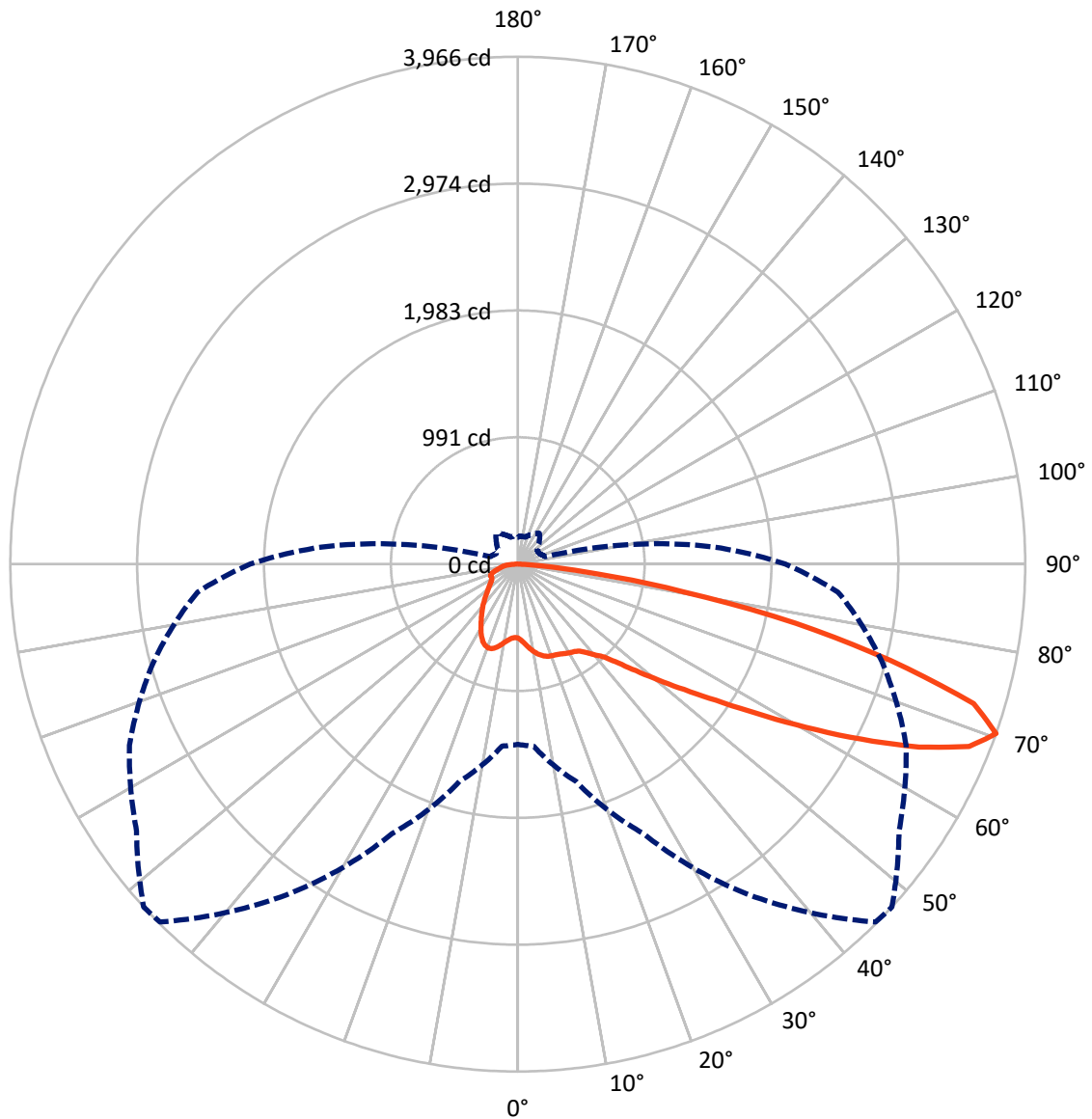
Based on 25 foot mounting height. Maximum calculated value = 1.2 fc

Type IV - Short - N/A

REPORT NUMBER: P522647

CATALOG NUMBER: GLAN-SA1D-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522647

CATALOG NUMBER: GLAN-SA1D-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.7	0.0	1303.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4454.3	0.0	4454.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	5758.0	0.0	5758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.0
10°-20°	199.2	3.5
20°-30°	331.3	5.8
30°-40°	469.5	8.2
40°-50°	693.1	12.0
50°-60°	1200.4	20.8
60°-70°	1695.7	29.4
70°-80°	974.8	16.9
80°-90°	134.5	2.3
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°	5758.0	100.0
0°-180°	5758.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522647

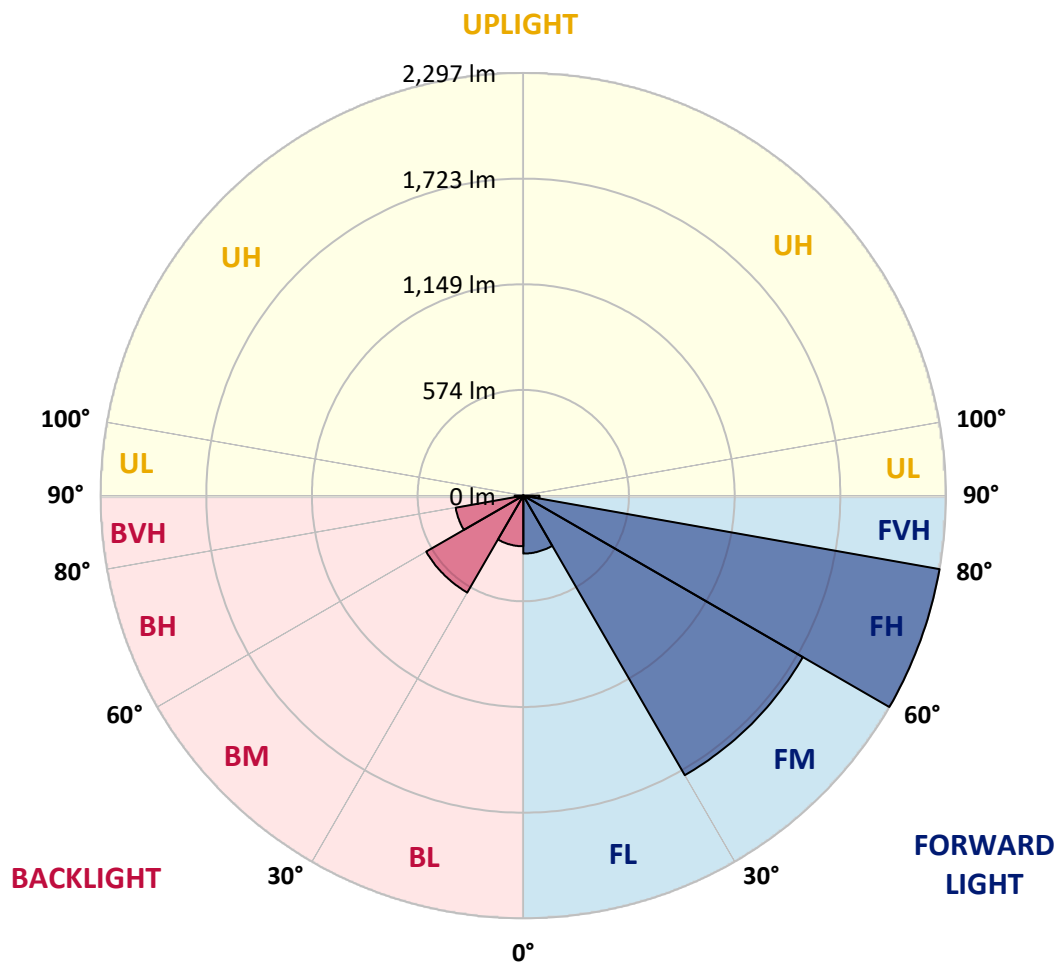
CATALOG NUMBER: GLAN-SA1D-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.9	5.5			
FM	(30°-60°)	1754.4	30.5			
FH	(60°-80°)	2297.2	39.9			G2/5000
FVH	(80°-90°)	87.9	1.5			G1/100
BL	(0°-30°)	275.2	4.8	B1/500		
BM	(30°-60°)	608.7	10.6	B1/1000		
BH	(60°-80°)	373.2	6.5	B1/500		G1/500
BVH	(80°-90°)	46.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P522647

CATALOG NUMBER: GLAN-SA1D-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
2.5°	615.3	613.2	612.9	608.2	605.8	601.1	599.3	595.0	589.7	584.5	579.6
5°	663.7	663.7	661.5	655.1	644.9	634.4	629.8	621.5	606.7	594.7	584.5
7.5°	713.3	713.9	709.6	700.0	685.6	668.6	664.3	652.0	631.0	613.5	598.4
10°	756.1	756.1	750.3	737.3	719.2	700.7	696.4	682.5	659.1	637.2	617.5
12.5°	788.8	788.8	781.1	764.1	744.4	727.8	722.9	709.6	687.7	663.4	638.4
15°	810.0	808.5	799.9	780.8	761.7	747.2	743.8	732.7	712.7	688.0	660.0
17.5°	811.0	810.4	802.0	786.0	769.4	759.5	757.4	750.0	734.3	710.8	681.3
20°	793.1	794.3	788.8	777.4	769.4	765.1	764.1	761.7	750.6	728.7	699.1
22.5°	774.0	776.2	770.9	764.8	764.1	768.5	769.1	769.7	762.6	741.3	714.2
25°	769.4	770.9	765.7	760.1	763.5	774.9	777.4	779.9	774.3	756.4	732.1
27.5°	792.8	791.6	781.4	769.4	771.5	786.9	790.3	793.1	790.3	774.9	754.3
30°	859.0	855.0	834.7	799.6	788.5	799.3	802.7	810.4	810.4	799.0	778.3
32.5°	970.0	962.3	925.0	856.0	817.4	811.0	814.4	827.0	833.5	824.5	802.0
35°	1104.6	1096.6	1043.3	950.6	870.4	834.4	833.5	847.6	864.9	844.9	815.6
37.5°	1239.9	1231.6	1167.5	1063.3	947.8	883.7	878.1	883.1	890.5	853.8	834.4
40°	1375.1	1365.3	1309.2	1189.3	1042.4	949.0	934.5	912.3	909.3	883.1	870.7
42.5°	1509.2	1500.2	1471.9	1330.8	1155.8	1012.8	990.6	952.4	964.1	948.4	937.6
45°	1644.4	1645.1	1614.9	1489.5	1292.6	1130.5	1100.6	1040.8	1068.6	1062.7	1068.9
47.5°	1764.3	1762.8	1752.0	1643.5	1462.3	1282.1	1243.6	1174.2	1221.7	1243.3	1290.4
50°	1880.5	1879.5	1880.2	1818.2	1659.5	1462.3	1419.8	1347.1	1454.0	1528.9	1613.3
52.5°	2046.8	2052.1	2014.8	1998.5	1899.3	1675.3	1628.4	1553.2	1728.6	1846.6	2011.4
55°	2213.8	2209.5	2180.3	2197.2	2150.1	1927.3	1878.3	1818.5	2034.2	2163.3	2411.0
57.5°	2312.1	2313.7	2343.6	2426.4	2459.7	2241.6	2197.2	2151.0	2377.8	2469.3	2766.6
60°	2400.6	2407.7	2493.6	2650.1	2740.4	2627.7	2588.2	2543.2	2693.0	2729.3	3075.3
62.5°	2428.3	2450.2	2600.2	2834.4	3014.0	3063.3	3014.3	2915.1	2993.1	2978.9	3284.6
65°	2290.0	2319.8	2588.8	2903.4	3258.4	3476.8	3445.7	3261.5	3248.8	3163.5	3318.8
67.5°	1925.8	1955.6	2301.0	2758.6	3359.4	3834.9	3803.7	3514.1	3404.1	3180.7	3059.9
70°	1409.0	1427.8	1758.1	2322.6	3156.4	3955.0	3965.8	3637.4	3348.7	2946.2	2512.4
72.5°	811.9	853.5	1084.9	1634.0	2578.7	3651.2	3726.1	3381.0	2998.0	2457.9	1756.6
75°	349.1	350.0	501.6	901.3	1746.4	2934.8	3007.3	2802.7	2354.3	1699.6	937.9
77.5°	166.1	169.2	220.6	402.4	961.3	2027.7	2223.1	1980.0	1505.8	816.5	354.3
80°	107.8	110.0	135.0	199.7	471.4	1175.8	1312.0	1142.2	664.3	291.8	152.8
82.5°	65.3	65.9	90.3	122.0	259.4	532.4	627.6	495.8	283.5	174.7	90.0
85°	39.7	40.1	54.8	75.5	157.4	183.9	188.9	187.3	166.4	114.3	48.1
87.5°	19.1	19.7	28.3	35.7	61.9	57.0	53.9	62.5	78.6	61.6	20.6
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: P522647

CATALOG NUMBER: GLAN-SA1D-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
2.5°	577.4	576.5	574.3	573.4	572.8	573.1	572.8	572.8	573.1	573.1	573.1
5°	580.2	578.7	575.3	575.3	577.1	581.4	585.4	588.5	591.9	591.6	591.6
7.5°	592.2	589.4	585.4	586.7	591.3	598.1	605.1	611.9	618.7	619.3	619.0
10°	609.8	607.0	602.7	604.2	611.6	621.8	630.7	640.6	648.0	650.1	649.5
12.5°	629.8	624.3	620.6	624.9	636.6	650.1	658.8	666.2	671.4	674.5	673.2
15°	650.1	644.9	640.6	649.5	663.7	676.3	680.6	681.9	682.8	685.9	685.3
17.5°	669.9	662.8	661.2	672.9	686.5	692.0	689.6	684.3	680.3	682.8	682.5
20°	687.4	681.9	681.3	693.0	698.2	693.0	682.5	673.2	666.2	666.8	666.5
22.5°	704.1	699.7	700.4	705.3	697.0	679.1	661.8	649.2	641.5	643.0	644.0
25°	722.5	718.2	719.8	711.8	684.3	653.2	628.3	617.5	614.4	617.5	619.6
27.5°	746.6	743.8	742.9	712.1	661.8	615.0	586.7	582.7	585.4	592.2	595.6
30°	772.5	772.5	767.5	706.8	631.0	569.1	544.4	545.1	554.6	564.2	567.6
32.5°	797.4	802.7	787.2	692.7	591.3	524.4	505.6	506.2	514.6	526.3	529.4
35°	818.1	833.2	804.2	666.8	544.4	486.8	472.7	464.3	464.6	473.6	476.0
37.5°	846.4	874.4	814.1	628.3	494.5	454.8	438.8	424.3	414.7	411.0	411.0
40°	895.7	937.0	816.5	571.3	447.4	424.3	401.5	384.2	365.7	349.1	346.0
42.5°	979.2	1031.3	811.6	505.6	404.9	390.7	368.5	347.3	321.7	298.3	296.4
45°	1127.1	1153.9	798.3	437.5	367.0	358.3	336.8	313.7	286.6	265.6	264.1
47.5°	1364.0	1326.2	780.8	377.1	332.5	330.0	313.4	286.6	259.4	245.0	243.4
50°	1710.1	1597.3	778.3	333.4	304.7	306.0	292.4	267.8	244.0	232.0	230.2
52.5°	2126.6	1924.8	794.6	302.6	280.4	285.0	278.2	255.4	234.5	224.3	222.5
55°	2530.9	2219.4	804.5	278.5	257.6	266.2	267.1	248.0	228.9	218.8	217.5
57.5°	2859.0	2441.2	760.7	256.7	237.9	251.1	257.9	243.7	226.2	218.5	217.2
60°	3087.4	2546.0	636.3	237.3	223.4	239.1	254.5	244.0	232.9	233.9	234.5
62.5°	3160.1	2499.5	477.3	222.8	213.5	235.1	260.1	256.7	245.3	252.4	253.6
65°	3039.6	2307.2	346.0	211.4	204.9	237.9	276.7	265.9	241.0	246.2	246.2
67.5°	2636.3	1987.7	269.3	200.9	195.0	243.1	293.3	265.0	230.8	236.9	231.4
70°	2091.2	1537.5	224.3	189.2	184.6	235.4	294.9	255.4	218.8	220.0	209.5
72.5°	1387.8	1010.9	192.9	178.1	168.5	211.7	282.2	243.1	207.1	200.0	189.5
75°	680.0	504.1	168.2	164.2	147.6	184.3	265.0	231.4	194.4	183.3	177.5
77.5°	263.4	214.5	143.6	146.7	128.5	162.4	242.2	214.8	177.8	162.7	158.1
80°	127.9	121.7	117.7	122.3	105.7	138.3	221.2	200.3	162.4	145.7	139.0
82.5°	79.5	75.2	90.3	95.2	81.3	126.3	209.8	188.0	143.0	120.8	115.2
85°	40.4	43.1	60.4	65.0	58.2	100.4	172.9	141.1	103.2	85.7	86.3
87.5°	15.4	20.6	31.7	34.2	31.1	53.0	95.2	82.3	66.2	45.0	41.6
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)