

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: P321856

Luminaire Tested: **GAN-SA2D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9444 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

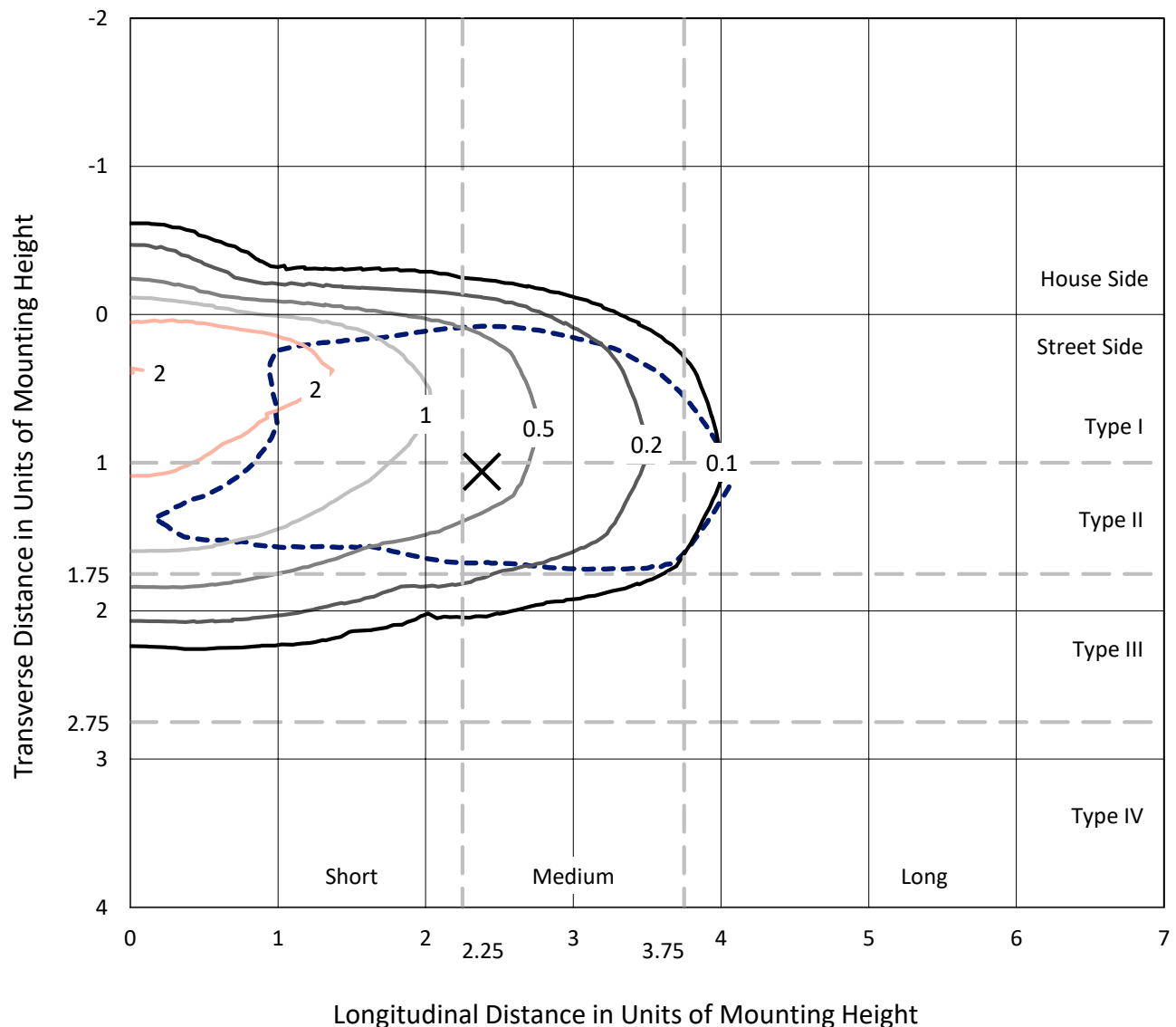
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

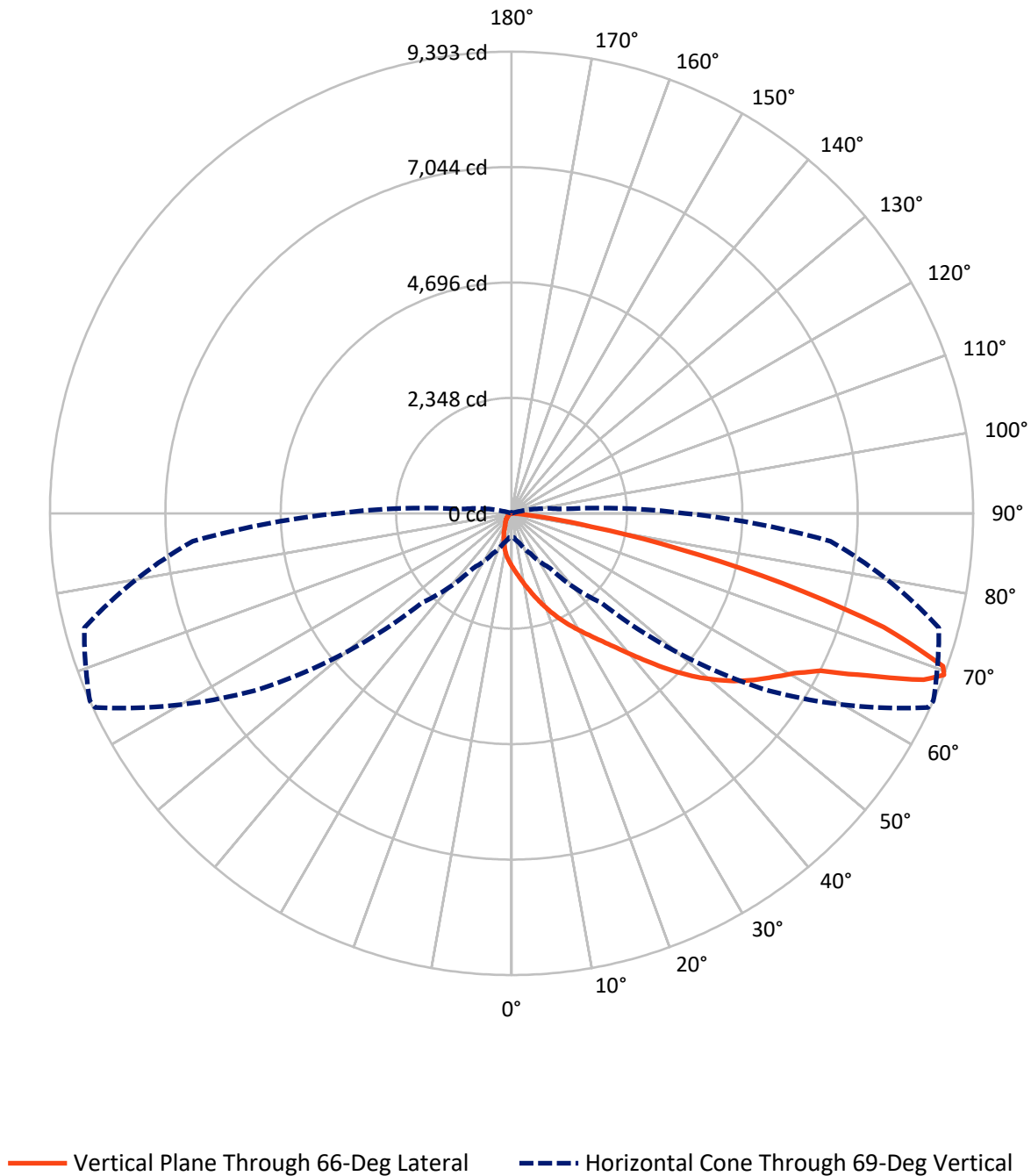
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.5	0.0	566.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	8877.5	0.0	8877.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	9444.0	0.0	9444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.1
10°-20°	309.2	3.3
20°-30°	538.4	5.7
30°-40°	944.7	10.0
40°-50°	1581.2	16.7
50°-60°	2324.2	24.6
60°-70°	2386.4	25.3
70°-80°	1178.1	12.5
80°-90°	77.9	0.8
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°	9444.0	100.0
0°-180°	9444.0	100.0

Coefficient of Utilization



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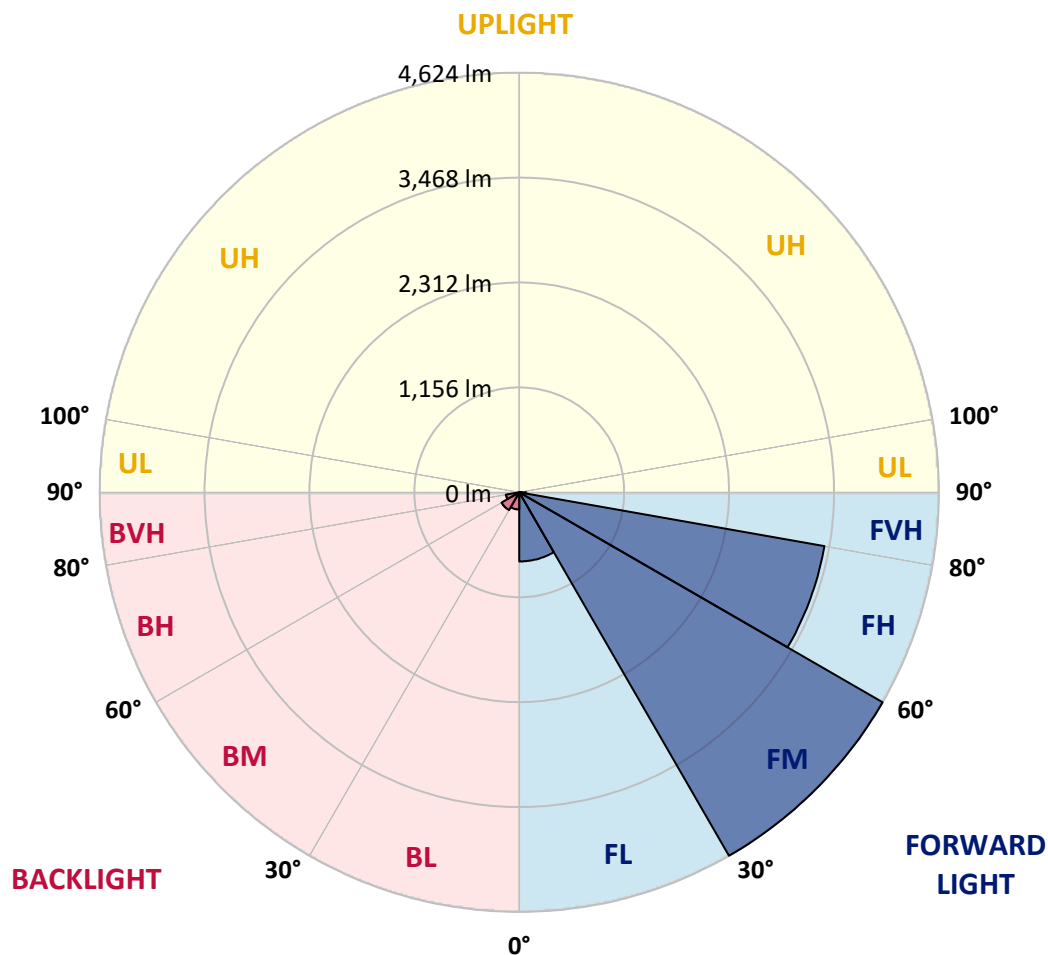
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.0	8.1			
FM	(30°-60°)	4624.2	49.0			
FH	(60°-80°)	3415.2	36.2			G2/5000
FVH	(80°-90°)	76.0	0.8			G1/100
BL	(0°-30°)	189.5	2.0	B1/500		
BM	(30°-60°)	225.9	2.4	B1/1000		
BH	(60°-80°)	149.3	1.6	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1264.9	1259.6	1257.3	1247.5	1230.4	1217.4	1192.3	1163.1	1157.7	1129.5	1094.9
5°	1429.1	1424.6	1421.5	1407.6	1390.1	1357.4	1311.6	1257.3	1247.0	1193.2	1124.1
7.5°	1543.5	1551.6	1551.6	1542.6	1520.6	1496.0	1439.9	1365.9	1352.9	1270.3	1163.1
10°	1610.3	1620.2	1627.8	1635.5	1632.3	1622.5	1569.5	1486.1	1470.4	1360.9	1208.4
12.5°	1616.6	1626.5	1648.0	1679.9	1710.8	1733.2	1700.1	1619.3	1601.4	1465.9	1262.3
15°	1581.6	1592.0	1625.1	1687.0	1762.0	1827.4	1838.2	1766.9	1748.5	1591.1	1329.5
17.5°	1520.6	1527.4	1574.9	1660.6	1778.1	1898.3	1963.4	1925.2	1908.2	1734.1	1404.5
20°	1475.3	1480.3	1522.0	1613.9	1768.2	1942.7	2081.8	2093.4	2075.5	1887.6	1485.6
22.5°	1552.9	1561.9	1563.2	1606.8	1741.3	1964.7	2185.8	2259.0	2245.5	2050.4	1565.5
25°	1765.1	1775.4	1741.3	1714.4	1764.2	1974.6	2275.1	2428.5	2417.8	2225.8	1645.8
27.5°	2045.4	2056.2	2012.3	1932.0	1884.0	2011.8	2354.5	2600.8	2600.3	2411.5	1732.4
30°	2320.9	2331.6	2286.8	2206.5	2096.1	2117.2	2423.1	2781.1	2783.8	2603.0	1824.3
32.5°	2609.7	2623.2	2577.0	2473.8	2358.5	2299.3	2519.6	2962.3	2977.6	2825.1	1927.9
35°	2938.1	2939.9	2874.8	2766.7	2634.0	2542.9	2674.3	3165.5	3201.8	3100.0	2059.4
37.5°	3260.2	3273.2	3219.8	3049.3	2927.3	2824.2	2904.4	3419.4	3471.0	3436.0	2231.2
40°	3498.8	3526.2	3518.5	3334.6	3218.9	3145.3	3190.2	3721.3	3786.8	3827.1	2447.8
42.5°	3648.6	3669.2	3704.2	3593.4	3488.5	3500.6	3527.5	4073.0	4153.7	4273.0	2696.8
45°	3820.4	3830.3	3859.4	3810.5	3739.7	3861.7	3885.5	4469.0	4553.8	4752.5	2973.1
47.5°	4030.3	4053.7	4061.7	4016.9	3984.6	4181.1	4230.4	4829.2	4948.1	5266.1	3265.5
50°	4297.7	4304.0	4317.9	4288.7	4256.4	4455.6	4539.9	5207.4	5315.5	5781.5	3554.0
52.5°	4559.2	4581.6	4630.1	4611.7	4598.7	4689.3	4815.8	5548.3	5668.9	6211.3	3841.9
55°	4634.6	4653.8	4821.2	4935.5	5041.4	4977.3	5079.5	5853.8	5984.3	6595.2	4119.2
57.5°	4333.6	4372.6	4662.4	4960.2	5399.4	5424.9	5442.0	6167.3	6284.4	6889.5	4407.6
60°	3572.8	3580.4	4055.9	4566.8	5340.1	5815.6	5971.3	6504.2	6602.4	7163.6	4753.0
62.5°	2272.4	2350.0	2871.7	3593.0	4714.0	5759.1	6611.4	7013.7	7049.6	7492.4	5248.2
65°	1082.4	1132.6	1508.5	2219.9	3414.5	5035.6	7053.2	7935.5	7951.7	8144.1	5909.8
67.5°	599.3	623.5	802.5	1195.0	1996.1	3561.1	6874.7	9027.3	9042.6	8809.8	6490.3
69°	468.7	489.4	630.2	900.7	1353.3	2559.5	6221.1	9347.2	9392.5	9000.4	6510.9
70°	397.9	418.1	542.8	760.8	1088.2	1977.7	5537.5	9267.8	9315.8	8982.5	6357.0
72.5°	243.6	255.2	361.5	535.6	729.4	994.9	3414.9	7837.7	7918.9	8239.7	5463.5
75°	164.2	170.5	226.1	369.6	521.7	512.3	1774.1	5524.5	5700.3	6409.5	4035.3
77.5°	117.5	123.4	151.6	239.1	365.6	338.2	803.4	3433.3	3471.0	3844.2	2200.7
80°	66.8	72.2	107.2	142.2	248.1	225.6	319.4	1639.9	1658.8	1648.5	734.7
82.5°	35.0	39.5	58.8	93.7	159.2	147.6	132.8	549.0	551.7	458.9	161.0
85°	6.7	8.1	29.2	64.1	82.1	64.1	54.3	128.7	131.4	116.2	39.9
87.5°	0.0	0.4	11.7	14.4	16.1	16.6	17.5	25.1	26.9	36.3	10.8
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°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1079.7	1063.5	1032.6	996.7	968.9	941.5	920.0	897.6	889.5	885.5	885.0
5°	1090.5	1056.4	990.9	923.6	868.4	816.4	779.2	743.7	727.1	719.5	716.4
7.5°	1108.4	1053.7	948.3	845.5	766.1	701.1	649.5	610.9	591.7	583.6	580.4
10°	1129.5	1050.1	898.5	763.0	661.6	594.3	543.2	505.1	484.0	475.0	470.5
12.5°	1154.2	1043.8	841.1	679.6	572.4	505.1	443.2	396.1	371.9	361.5	356.6
15°	1184.7	1037.5	780.9	601.1	493.9	411.8	344.0	312.2	307.3	305.5	305.9
17.5°	1214.7	1027.7	715.5	523.5	411.3	321.6	287.1	285.3	286.2	286.2	286.2
20°	1241.6	1005.2	644.1	457.1	332.8	271.4	264.2	261.1	258.8	257.0	254.8
22.5°	1262.7	975.2	575.5	391.1	271.8	248.5	237.3	227.4	219.3	214.0	211.3
25°	1277.1	935.3	512.7	327.9	244.5	226.1	205.9	189.3	176.7	169.1	166.0
27.5°	1287.8	892.2	456.6	274.5	225.6	200.1	173.6	153.9	140.8	134.1	131.4
30°	1295.5	843.3	407.3	241.3	204.5	172.7	144.4	125.1	115.7	112.1	110.3
32.5°	1302.6	789.0	360.6	225.6	184.8	147.6	121.1	106.3	100.5	96.0	94.6
35°	1320.6	738.8	316.2	209.0	164.6	126.0	104.1	93.3	87.5	84.8	83.9
37.5°	1363.2	701.6	273.6	192.0	144.4	109.0	91.1	83.4	78.1	75.4	74.5
40°	1431.8	682.7	237.7	173.6	124.7	96.0	82.5	75.4	69.5	65.5	64.6
42.5°	1532.7	685.4	212.6	155.2	109.0	85.7	74.5	65.9	59.7	56.1	55.2
45°	1655.2	705.1	195.1	137.3	96.0	77.6	65.5	56.5	50.7	47.5	46.7
47.5°	1788.0	737.0	180.8	121.1	85.7	70.0	56.5	47.1	42.2	39.5	39.0
50°	1927.9	767.9	166.0	105.4	76.7	62.4	47.5	39.0	35.0	32.7	31.8
52.5°	2069.7	803.8	152.5	91.1	69.1	53.4	39.5	31.8	28.7	26.9	26.0
55°	2222.2	830.7	139.5	79.8	61.5	45.3	32.7	26.5	23.8	21.5	21.1
57.5°	2401.6	872.5	126.0	69.1	52.5	37.7	26.9	21.1	18.8	16.6	16.1
60°	2643.8	921.3	111.7	61.0	43.1	31.0	22.0	17.0	14.4	12.6	12.1
62.5°	2963.2	975.6	93.7	53.4	35.0	25.1	17.5	13.5	10.3	8.1	8.1
65°	3368.3	1064.0	76.7	44.9	28.7	20.6	13.5	9.9	5.8	3.6	3.6
67.5°	3604.7	1079.2	61.9	36.8	23.3	17.5	11.2	6.7	1.8	0.4	0.0
69°	3528.8	990.9	52.5	31.4	20.2	16.6	10.3	4.9	0.9	0.0	0.0
70°	3386.2	906.1	46.2	27.8	18.4	15.7	9.9	3.6	0.9	0.0	0.0
72.5°	2798.1	645.0	35.0	20.6	13.5	13.9	9.0	2.2	0.9	0.0	0.0
75°	2038.3	392.0	25.1	14.4	8.5	10.3	6.3	0.9	0.4	0.0	0.0
77.5°	1134.0	184.8	15.7	8.1	5.4	6.3	3.1	0.0	0.0	0.0	0.0
80°	368.3	50.2	7.2	4.5	3.1	3.6	1.3	0.0	0.0	0.0	0.0
82.5°	68.2	14.4	4.0	2.2	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	14.8	5.8	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	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)