

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: P531659

Luminaire Tested: **GLAN-SA7A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19872 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

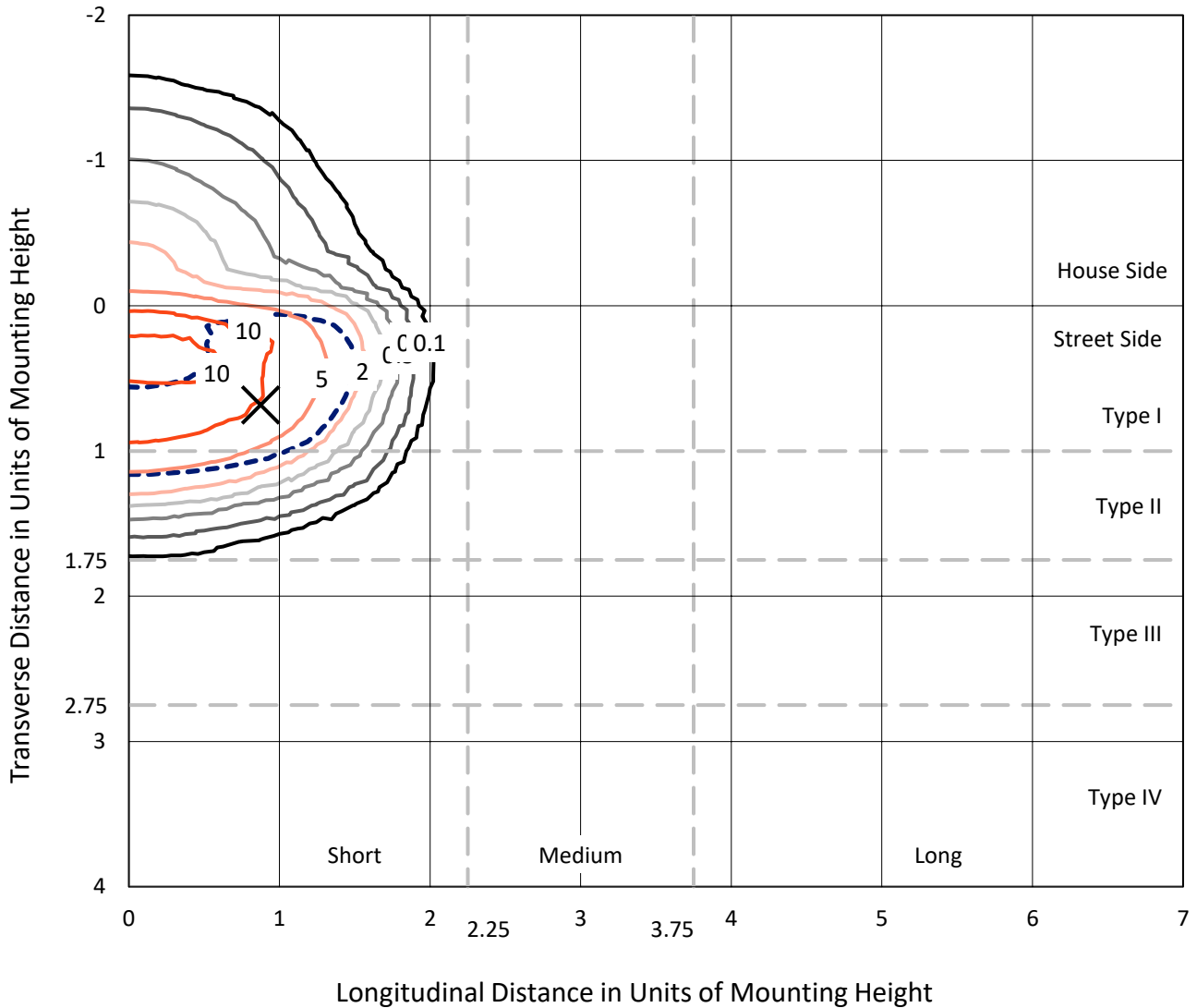
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

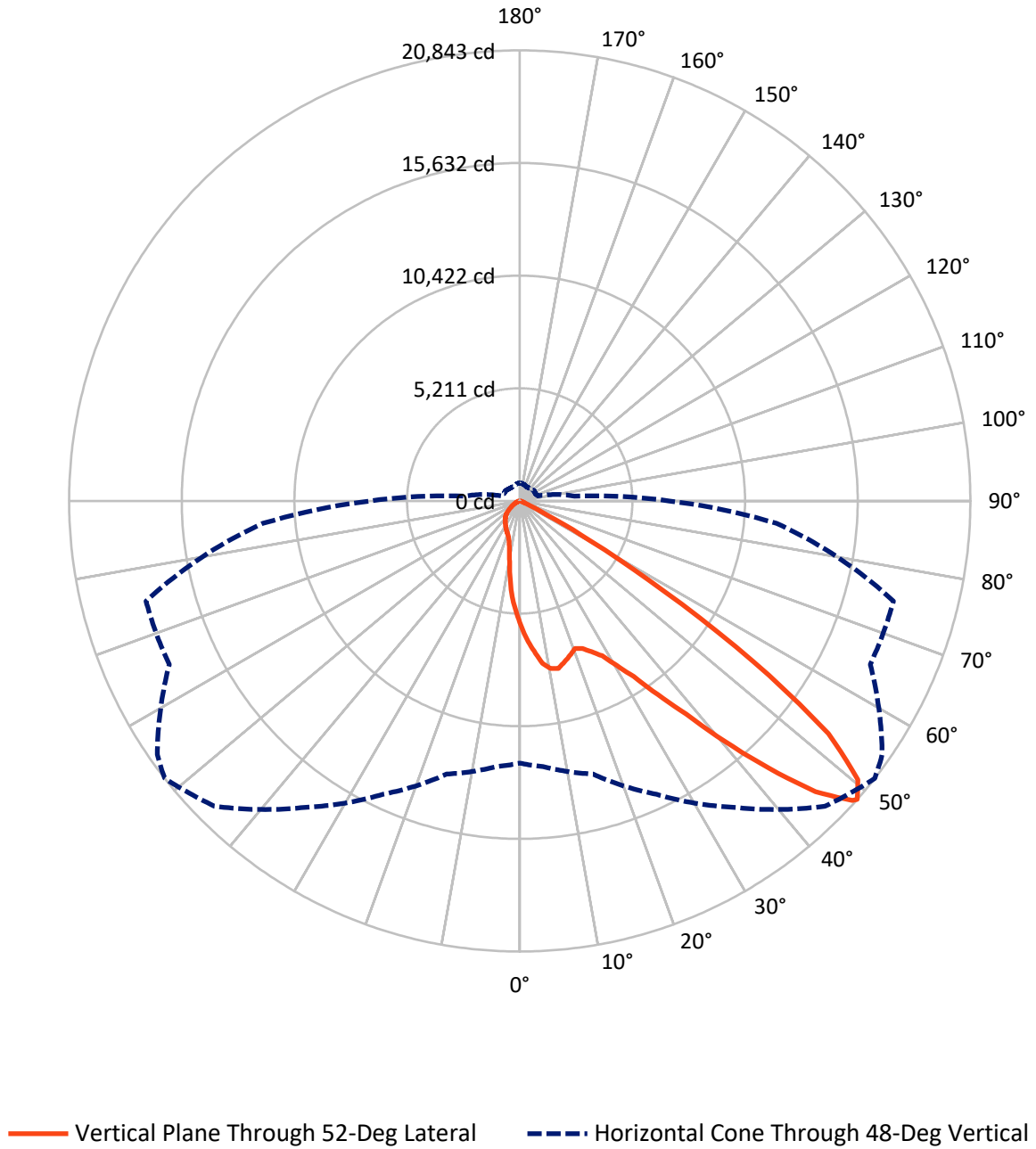
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2419.6	0.0	2419.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	17452.4	0.0	17452.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	19872.0	0.0	19872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.3	2.6
10°-20°	1372.7	6.9
20°-30°	2343.7	11.8
30°-40°	4316.0	21.7
40°-50°	6702.7	33.7
50°-60°	4033.9	20.3
60°-70°	466.6	2.3
70°-80°	90.3	0.5
80°-90°	20.9	0.1
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°	19872.0	100.0
0°-180°	19872.0	100.0

Coefficient of Utilization



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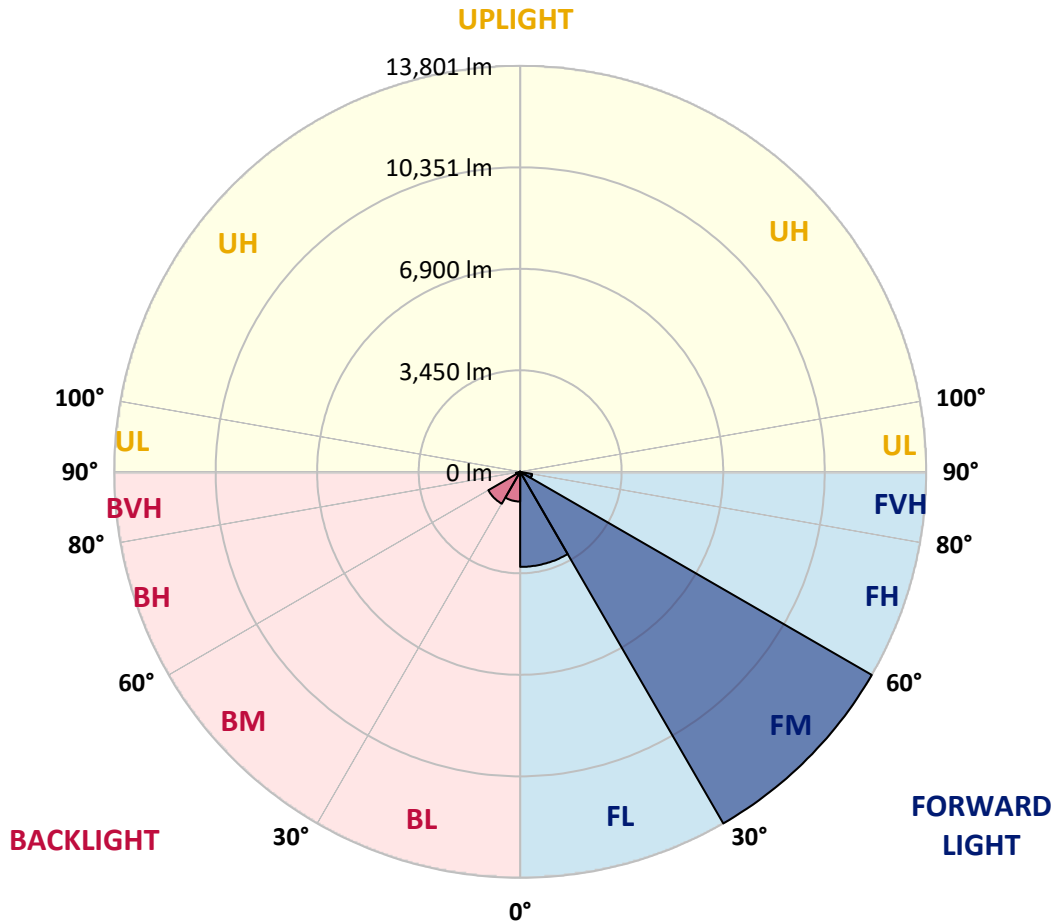
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3230.9	16.3			
FM (30°-60°)	13800.7	69.4			
FH (60°-80°)	410.8	2.1			G0/660
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	1010.7	5.1	B3/2500		
BM (30°-60°)	1251.9	6.3	B2/2500		
BH (60°-80°)	146.0	0.7	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7
2.5°	6955.4	6796.1	6810.5	6706.3	6645.4	6546.9	6413.7	6387.6	6242.8	6045.8	5845.9
5°	7581.1	7543.5	7592.7	7442.1	7447.9	7285.6	6972.8	6978.6	6645.4	6323.9	6013.9
7.5°	7621.7	7534.8	7584.0	7717.3	7795.5	7766.5	7589.8	7436.3	7120.5	6648.3	6196.4
10°	6825.0	6990.2	7042.3	7262.5	7575.3	7905.6	7885.3	7894.0	7630.4	7013.3	6352.8
12.5°	6347.0	6237.0	6413.7	6546.9	7019.1	7659.3	7951.9	8015.6	8035.9	7366.7	6509.3
15°	6129.8	6129.8	6158.7	6196.4	6538.2	7129.2	7726.0	7911.4	8348.8	7830.2	6755.5
17.5°	6265.9	6260.1	6300.7	6222.5	6349.9	6804.8	7517.4	7728.9	8699.3	8285.1	6949.6
20°	6680.2	6700.5	6674.4	6448.4	6457.1	6799.0	7285.6	7618.8	8936.9	8679.0	7207.4
22.5°	7256.7	7268.3	7120.5	6874.3	6801.9	6969.9	7418.9	7673.8	9128.0	9151.2	7285.6
25°	7922.9	7876.6	7847.6	7500.0	7279.8	7424.7	7720.2	7867.9	9246.8	9556.8	7508.7
27.5°	8847.0	8754.3	8577.6	8267.7	8105.4	7899.8	8111.2	8354.6	9585.7	10124.6	7752.0
30°	10211.5	10130.4	9785.6	9385.9	8960.0	8757.2	8823.9	8957.1	10197.0	10782.2	8073.6
32.5°	12265.4	12094.4	11596.2	10834.3	10254.9	9695.8	9678.4	9820.4	10744.5	11691.8	8456.0
35°	14527.8	14475.7	13742.8	12957.7	11836.6	10973.4	10987.8	11063.2	11793.2	12885.3	8957.1
37.5°	16031.3	16318.1	15851.7	15008.7	14067.2	12833.1	12520.3	12546.4	13232.9	14299.0	9861.0
40°	17192.9	16949.6	17004.6	16807.7	16164.5	15324.5	14632.1	14495.9	14898.6	15863.3	10759.0
42.5°	16686.0	16697.6	17036.5	17502.9	17662.2	17601.4	16894.6	16636.7	16323.9	17143.7	11613.6
45°	15254.9	15553.3	15993.6	17227.7	18311.1	19327.9	19188.9	18760.1	17308.8	18157.6	12106.0
47.5°	12972.2	12960.6	13681.9	15286.8	17694.1	20075.3	20706.8	20405.6	18007.0	18044.6	12004.6
48°	12129.2	12337.8	13082.3	14971.0	17303.0	19965.2	20843.0	20463.5	17888.2	17894.0	11917.7
50°	8965.8	8928.2	9855.2	12172.7	15454.8	18760.1	20269.4	20564.9	17885.3	17132.1	11309.4
52.5°	4736.4	4898.6	5573.6	7653.5	10927.0	15353.4	17879.5	18340.1	17253.8	15886.4	10434.5
55°	2013.3	1819.2	2337.8	3456.0	6147.2	10257.8	13117.0	14142.5	14588.6	14058.5	9128.0
57.5°	718.4	785.1	903.8	1300.7	2584.0	5614.1	7821.6	8618.2	10107.2	10315.8	6219.6
60°	460.6	469.3	507.0	596.8	970.5	2164.0	3710.9	4345.3	5020.3	5182.5	2902.7
62.5°	356.3	359.2	376.6	391.1	460.6	840.1	1393.4	1651.2	1714.9	1474.5	761.9
65°	298.4	301.3	307.1	307.1	327.3	394.0	486.7	535.9	521.4	515.6	431.6
67.5°	228.9	234.6	246.2	246.2	257.8	240.4	269.4	286.8	324.4	394.0	367.9
70°	179.6	182.5	191.2	197.0	197.0	173.8	194.1	211.5	237.5	292.6	289.7
72.5°	139.0	144.8	150.6	150.6	141.9	118.8	139.0	153.5	170.9	202.8	197.0
75°	107.2	107.2	110.1	89.8	69.5	60.8	84.0	101.4	127.5	133.3	110.1
77.5°	29.0	31.9	29.0	26.1	29.0	43.5	55.0	63.7	81.1	81.1	72.4
80°	0.0	2.9	8.7	17.4	29.0	40.6	49.2	55.0	63.7	69.5	66.6
82.5°	0.0	2.9	8.7	17.4	26.1	31.9	43.5	46.3	52.1	60.8	60.8
85°	0.0	2.9	5.8	11.6	17.4	20.3	20.3	17.4	17.4	14.5	11.6
87.5°	0.0	0.0	2.9	5.8	5.8	8.7	8.7	8.7	8.7	8.7	8.7
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°	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7	5738.7
2.5°	5767.7	5677.9	5541.7	5327.3	5121.7	4988.4	4861.0	4719.0	4640.8	4635.0	4591.5
5°	5837.2	5634.4	5310.0	4942.1	4548.1	4209.2	3867.3	3644.3	3444.4	3334.3	3314.0
7.5°	5874.9	5611.2	5086.9	4469.9	3797.8	3244.5	2862.1	2581.1	2471.0	2389.9	2387.0
10°	5953.1	5570.7	4753.8	3844.1	3012.7	2453.7	2190.0	2062.6	2001.7	1978.6	1943.8
12.5°	6011.0	5495.4	4411.9	3201.0	2381.2	2033.6	1917.7	1888.8	1891.7	1903.2	1888.8
15°	6092.1	5428.7	3951.3	2627.5	1998.8	1830.8	1830.8	1836.6	1877.2	1883.0	1880.1
17.5°	6086.3	5298.4	3476.2	2164.0	1767.1	1743.9	1752.6	1807.6	1833.7	1842.4	1822.1
20°	6155.9	5176.7	2986.7	1848.2	1636.7	1671.5	1729.4	1743.9	1775.8	1781.6	1758.4
22.5°	6135.6	4872.5	2531.9	1599.1	1538.2	1604.9	1662.8	1680.2	1671.5	1654.1	1651.2
25°	6097.9	4611.8	2114.7	1434.0	1465.8	1538.2	1593.3	1561.4	1544.0	1546.9	1549.8
27.5°	6031.3	4281.6	1770.0	1318.1	1367.3	1474.5	1471.6	1460.0	1477.4	1462.9	1477.4
30°	6019.7	3951.3	1486.1	1213.8	1294.9	1373.1	1378.9	1399.2	1419.5	1393.4	1419.5
32.5°	6037.1	3589.2	1283.3	1150.1	1251.4	1254.3	1318.1	1338.4	1323.9	1265.9	1271.7
35°	6170.3	3311.1	1135.6	1115.3	1181.9	1184.8	1245.7	1219.6	1155.9	1121.1	1141.4
37.5°	6451.3	3079.4	1066.0	1083.4	1089.2	1126.9	1129.8	1077.6	1083.4	1080.5	1092.1
40°	6810.5	2902.7	1016.8	1054.5	1048.7	1074.7	970.5	999.4	1025.5	1034.2	1040.0
42.5°	7056.8	2775.2	984.9	1008.1	996.5	950.2	892.2	921.2	941.5	973.3	979.1
45°	7166.9	2673.8	947.3	927.0	927.0	843.0	819.8	825.6	872.0	906.7	900.9
47.5°	6987.3	2575.3	880.6	819.8	840.1	770.6	744.5	744.5	793.7	837.2	828.5
48°	6917.7	2534.8	883.5	796.6	811.1	759.0	732.9	727.1	782.2	822.7	822.7
50°	6573.0	2384.1	808.2	732.9	703.9	698.1	680.8	686.6	721.3	759.0	759.0
52.5°	5900.9	2059.7	683.7	628.6	576.5	611.2	619.9	608.3	625.7	660.5	657.6
55°	4924.7	1581.7	547.5	521.4	480.9	518.5	535.9	521.4	504.1	530.1	530.1
57.5°	3154.7	851.7	437.4	443.2	402.7	440.3	454.8	420.0	388.2	408.5	405.6
60°	1422.4	509.8	359.2	350.5	324.4	367.9	391.1	350.5	307.1	321.6	336.0
62.5°	533.0	362.1	272.3	266.5	260.7	301.3	312.9	281.0	237.5	246.2	249.1
65°	391.1	318.7	217.3	197.0	208.6	237.5	231.7	199.9	170.9	170.9	176.7
67.5°	333.1	278.1	176.7	153.5	153.5	156.4	144.8	127.5	118.8	124.6	130.4
70°	260.7	220.2	139.0	118.8	107.2	95.6	84.0	81.1	72.4	81.1	78.2
72.5°	168.0	147.7	107.2	89.8	81.1	66.6	55.0	52.1	43.5	40.6	40.6
75°	89.8	89.8	84.0	72.4	63.7	52.1	43.5	34.8	23.2	17.4	17.4
77.5°	63.7	69.5	75.3	69.5	57.9	43.5	34.8	23.2	11.6	5.8	5.8
80°	60.8	69.5	75.3	66.6	57.9	43.5	31.9	17.4	8.7	2.9	2.9
82.5°	55.0	63.7	69.5	60.8	52.1	37.7	29.0	17.4	8.7	2.9	2.9
85°	11.6	14.5	17.4	17.4	20.3	26.1	20.3	14.5	5.8	2.9	2.9
87.5°	8.7	8.7	8.7	8.7	8.7	8.7	5.8	5.8	2.9	2.9	2.9
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)