

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: P382932

Luminaire Tested: **GAN-SA2D-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10718.4 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

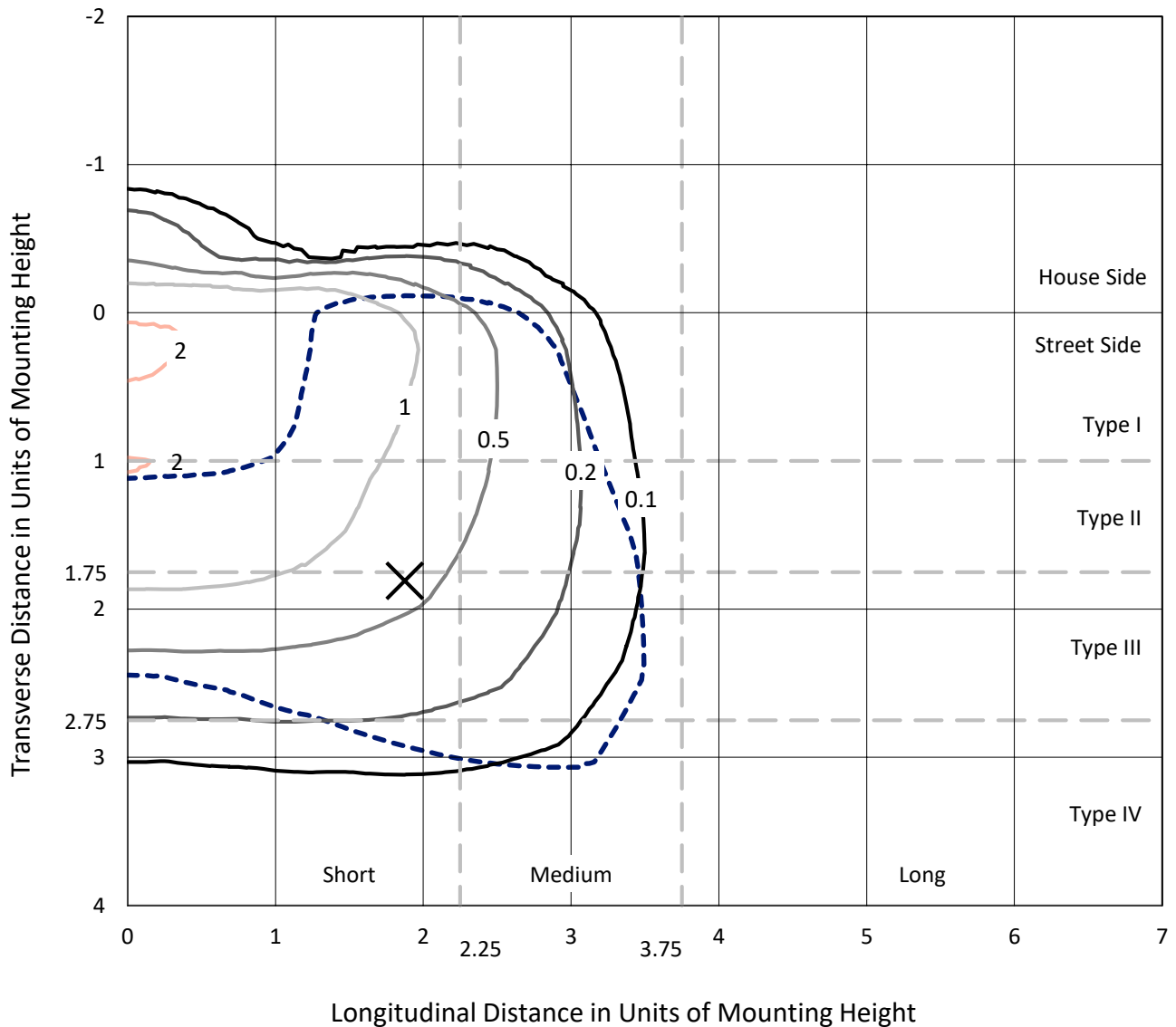
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

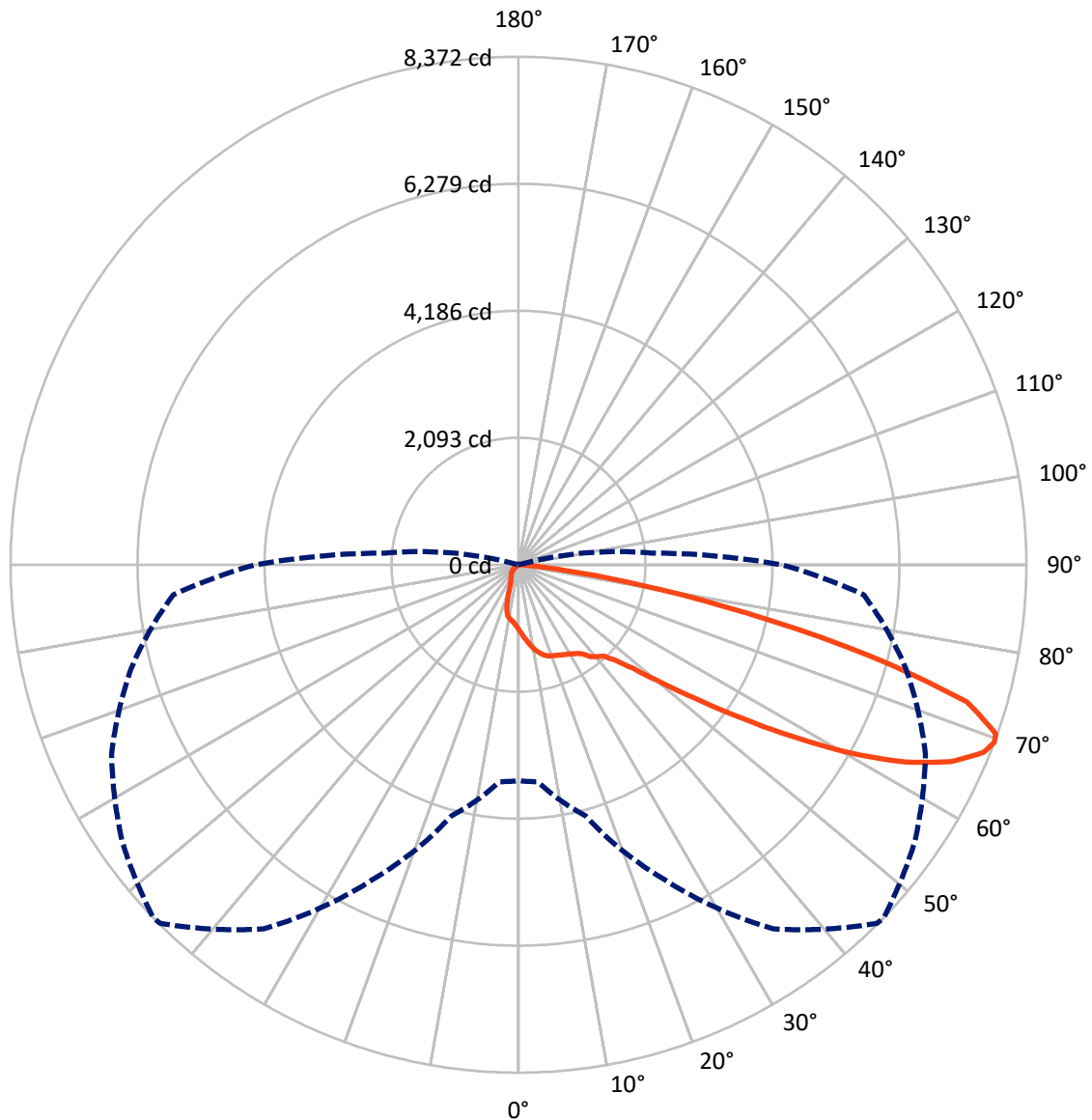
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.0	0.0	1100.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9618.4	0.0	9618.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	10718.4	0.0	10718.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	1.0
10°-20°	324.3	3.0
20°-30°	510.0	4.8
30°-40°	731.3	6.8
40°-50°	1264.0	11.8
50°-60°	2497.2	23.3
60°-70°	3490.1	32.6
70°-80°	1686.1	15.7
80°-90°	108.4	1.0
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°	10718.4	100.0
0°-180°	10718.4	100.0

Coefficient of Utilization

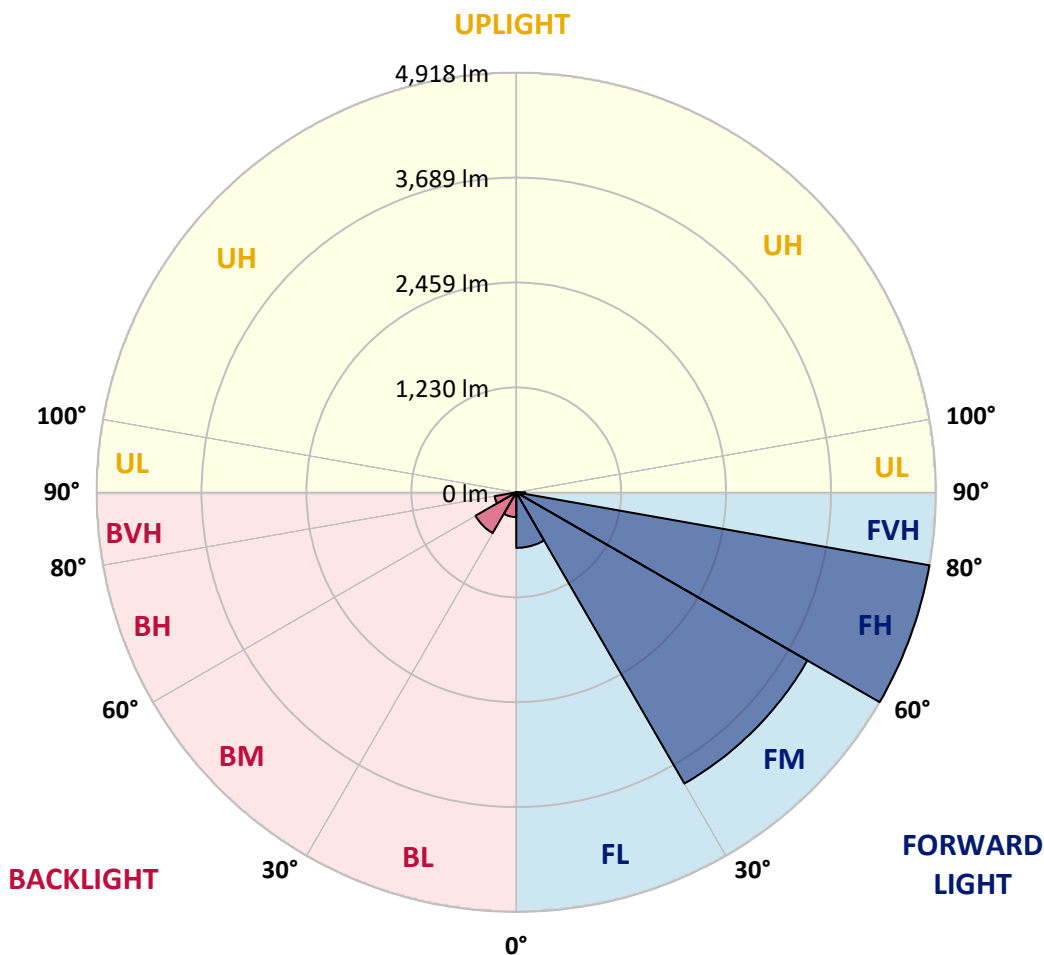


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.3	6.1			
FM (30°-60°)	3941.4	36.8			
FH (60°-80°)	4918.3	45.9			G2/5000
FVH (80°-90°)	107.5	1.0			G2/225
BL (0°-30°)	289.9	2.7	B1/500		
BM (30°-60°)	551.2	5.1	B1/1000		
BH (60°-80°)	257.9	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0
2.5°	1193.0	1191.5	1184.5	1181.5	1164.4	1154.4	1150.4	1137.8	1119.7	1101.6	1081.5
5°	1328.8	1328.2	1315.2	1302.6	1270.4	1240.3	1234.8	1205.6	1164.9	1126.7	1088.5
7.5°	1467.5	1460.9	1447.8	1423.7	1377.0	1328.8	1324.2	1283.0	1225.2	1169.9	1115.2
10°	1585.0	1581.0	1563.9	1527.3	1472.5	1417.7	1412.1	1361.4	1296.1	1228.2	1158.4
12.5°	1676.5	1673.5	1650.9	1605.1	1546.8	1490.0	1482.6	1437.3	1367.4	1291.6	1209.1
15°	1732.3	1730.8	1703.1	1654.4	1597.1	1547.9	1541.3	1501.7	1436.8	1357.4	1264.4
17.5°	1745.3	1745.8	1717.2	1667.9	1620.7	1585.5	1580.5	1550.4	1496.1	1417.2	1319.7
20°	1716.2	1722.2	1696.6	1653.9	1624.7	1606.2	1602.1	1584.0	1538.3	1463.9	1363.9
22.5°	1675.0	1678.0	1660.4	1631.8	1619.7	1623.2	1621.2	1611.2	1572.5	1504.1	1407.7
25°	1649.9	1649.9	1639.3	1615.2	1623.2	1644.8	1645.3	1643.3	1612.7	1553.4	1460.9
27.5°	1648.8	1645.9	1633.7	1615.7	1637.8	1671.0	1673.0	1686.6	1667.5	1613.2	1527.3
30°	1689.1	1685.5	1659.9	1636.3	1664.4	1700.1	1705.1	1734.8	1725.2	1678.0	1601.1
32.5°	1783.1	1770.5	1713.7	1675.0	1696.1	1738.8	1745.3	1792.6	1807.7	1757.9	1672.5
35°	1911.7	1871.9	1790.1	1748.3	1750.4	1795.1	1801.1	1870.5	1915.2	1831.2	1727.7
37.5°	2089.1	2069.5	1936.3	1824.7	1833.8	1901.7	1919.3	1994.6	1982.1	1871.5	1790.5
40°	2478.1	2447.4	2305.7	2038.9	1913.7	1988.1	1993.6	2033.8	2034.8	1962.5	1921.2
42.5°	3007.8	2995.2	2845.9	2427.3	2071.0	2045.9	2055.9	2123.7	2199.7	2154.4	2152.4
45°	3594.2	3587.7	3429.4	2942.9	2389.1	2235.3	2247.9	2338.8	2484.1	2494.1	2557.9
47.5°	4066.1	4063.1	3972.1	3518.4	2876.1	2556.4	2560.5	2657.0	2912.3	3038.4	3140.4
50°	4496.3	4510.8	4439.0	4141.0	3539.4	3059.5	3050.0	3114.3	3524.3	3730.9	3857.5
52.5°	5094.4	5114.9	4913.4	4721.9	4235.5	3683.7	3676.2	3743.4	4260.1	4414.9	4437.5
55°	5622.4	5587.3	5428.0	5372.7	5084.3	4454.6	4452.5	4511.9	4971.7	5037.5	5079.3
57.5°	5855.7	5842.1	5919.0	6045.7	5973.3	5365.7	5361.1	5316.0	5608.4	5615.5	5743.6
60°	6002.9	6019.5	6255.2	6645.7	6826.1	6346.2	6317.0	6041.1	6216.5	6200.9	6338.2
62.5°	5892.3	5925.0	6349.1	6999.9	7464.3	7202.0	7160.8	6705.5	6736.1	6682.4	6810.0
65°	5305.3	5356.1	6051.1	6933.1	7780.9	7870.9	7829.2	7292.0	7148.7	7060.3	6989.4
67.5°	4307.8	4337.9	5063.7	6351.7	7638.2	8269.9	8261.3	7806.1	7460.3	6996.5	6446.7
69°	3560.0	3589.7	4288.2	5739.5	7324.1	8355.3	8371.9	7970.9	7401.0	6608.5	5712.0
70°	3015.3	3046.9	3697.8	5214.9	6959.8	8315.6	8345.3	7955.3	7231.1	6159.2	5067.2
72.5°	1581.5	1608.7	2276.5	3592.7	5673.8	7635.7	7725.7	7282.9	6129.6	4473.2	2996.2
75°	497.0	512.6	889.0	1878.0	3884.6	5937.1	5957.7	5713.0	4352.6	2460.5	1247.8
77.5°	189.5	184.9	296.0	692.0	1964.0	3738.5	3864.6	3570.1	2284.1	869.9	287.9
80°	102.0	102.6	153.8	286.5	840.3	1921.2	2027.8	1730.3	811.7	271.4	66.3
82.5°	44.2	46.2	86.4	151.7	385.9	708.6	761.8	634.2	310.1	182.4	24.6
85°	9.6	10.5	41.7	82.4	157.3	199.0	208.6	205.5	197.5	141.7	9.6
87.5°	0.0	0.0	18.6	29.6	39.7	45.3	39.7	51.8	109.1	95.5	5.0
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°	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0	1074.0
2.5°	1074.9	1065.9	1050.3	1033.3	1021.2	1008.6	998.5	994.1	989.0	985.5	990.0
5°	1073.0	1055.4	1025.2	996.0	975.0	957.8	943.8	938.3	932.8	928.7	928.2
7.5°	1090.6	1065.9	1019.7	976.9	944.3	921.2	902.1	894.0	887.5	884.5	882.0
10°	1124.2	1092.5	1030.8	975.0	932.8	893.5	852.3	820.7	800.0	790.5	787.0
12.5°	1167.9	1128.2	1051.8	985.5	924.2	848.8	761.4	686.0	637.3	621.2	611.6
15°	1219.2	1169.9	1079.5	999.1	893.0	755.3	607.1	508.5	463.4	454.3	444.3
17.5°	1268.4	1214.2	1112.6	1001.6	824.7	603.5	444.7	377.9	360.3	366.4	367.9
20°	1311.6	1257.9	1145.3	979.4	700.5	452.8	344.2	327.6	334.2	345.8	347.7
22.5°	1355.4	1300.1	1175.4	921.2	541.8	343.7	310.1	314.1	320.6	332.2	334.2
25°	1408.6	1351.3	1203.6	814.1	406.5	292.5	294.5	300.5	307.0	317.6	318.6
27.5°	1470.0	1416.1	1222.2	674.9	301.5	268.8	275.4	284.4	291.0	301.0	303.0
30°	1551.4	1501.7	1228.2	530.7	252.8	247.8	250.8	261.9	271.4	280.4	281.9
32.5°	1627.8	1586.1	1208.1	400.6	234.2	228.1	228.1	234.7	245.7	254.3	256.3
35°	1698.1	1671.0	1143.8	293.0	220.1	210.1	205.0	205.0	212.1	219.1	221.1
37.5°	1791.1	1790.1	1039.8	233.7	206.5	195.0	184.4	176.4	173.9	175.4	176.4
40°	1950.4	1951.9	904.1	209.6	195.0	179.4	163.3	148.8	135.2	130.7	130.1
42.5°	2199.1	2176.6	761.8	198.0	184.9	163.3	139.2	119.6	98.5	91.9	91.5
45°	2594.2	2459.9	611.1	187.4	174.4	145.2	115.0	88.4	71.4	66.3	66.3
47.5°	3169.6	2832.4	473.4	175.9	160.3	124.6	86.9	63.8	52.3	49.7	50.2
50°	3764.6	3197.2	362.8	161.3	143.3	103.0	64.4	46.2	39.7	39.7	40.2
52.5°	4292.3	3464.5	282.9	145.7	122.1	81.0	48.7	36.1	33.2	32.7	33.2
55°	4786.3	3636.9	216.6	127.6	97.0	60.3	37.2	29.6	27.7	26.6	26.2
57.5°	5262.7	3722.4	162.4	103.0	70.3	43.7	29.6	25.2	23.1	21.6	21.1
60°	5579.8	3653.0	111.6	75.9	48.7	31.7	24.6	21.6	19.1	17.6	17.0
62.5°	5758.6	3463.6	71.8	54.8	34.7	23.7	19.6	18.1	14.5	13.0	13.0
65°	5686.4	3151.0	50.2	39.2	25.2	17.6	14.5	14.5	10.5	8.6	8.0
67.5°	5039.0	2662.0	38.2	29.2	18.1	13.0	11.1	12.6	6.5	4.0	4.0
69°	4335.5	2206.2	32.7	24.1	15.1	10.5	9.6	11.6	4.6	3.0	2.5
70°	3768.1	1903.2	29.6	21.1	12.6	9.0	8.6	11.1	4.6	2.5	2.0
72.5°	2254.4	1061.4	22.6	15.1	8.0	7.1	7.1	12.6	4.6	2.5	2.0
75°	911.1	373.9	16.6	10.5	6.1	6.1	8.6	16.1	4.0	2.0	1.5
77.5°	206.5	81.9	9.6	6.5	4.0	6.1	10.1	12.6	2.5	1.0	0.0
80°	50.2	20.1	6.1	4.0	2.5	4.6	7.5	7.1	0.5	0.0	0.0
82.5°	16.6	7.1	2.5	2.0	0.5	1.5	3.5	2.0	0.0	0.0	0.0
85°	7.1	4.0	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.6	1.5	0.0	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)