

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: P193732

Luminaire Tested: **GAN-AF-04-LED-U-SL4-8030-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-8030-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10477 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
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: 28.75 FT

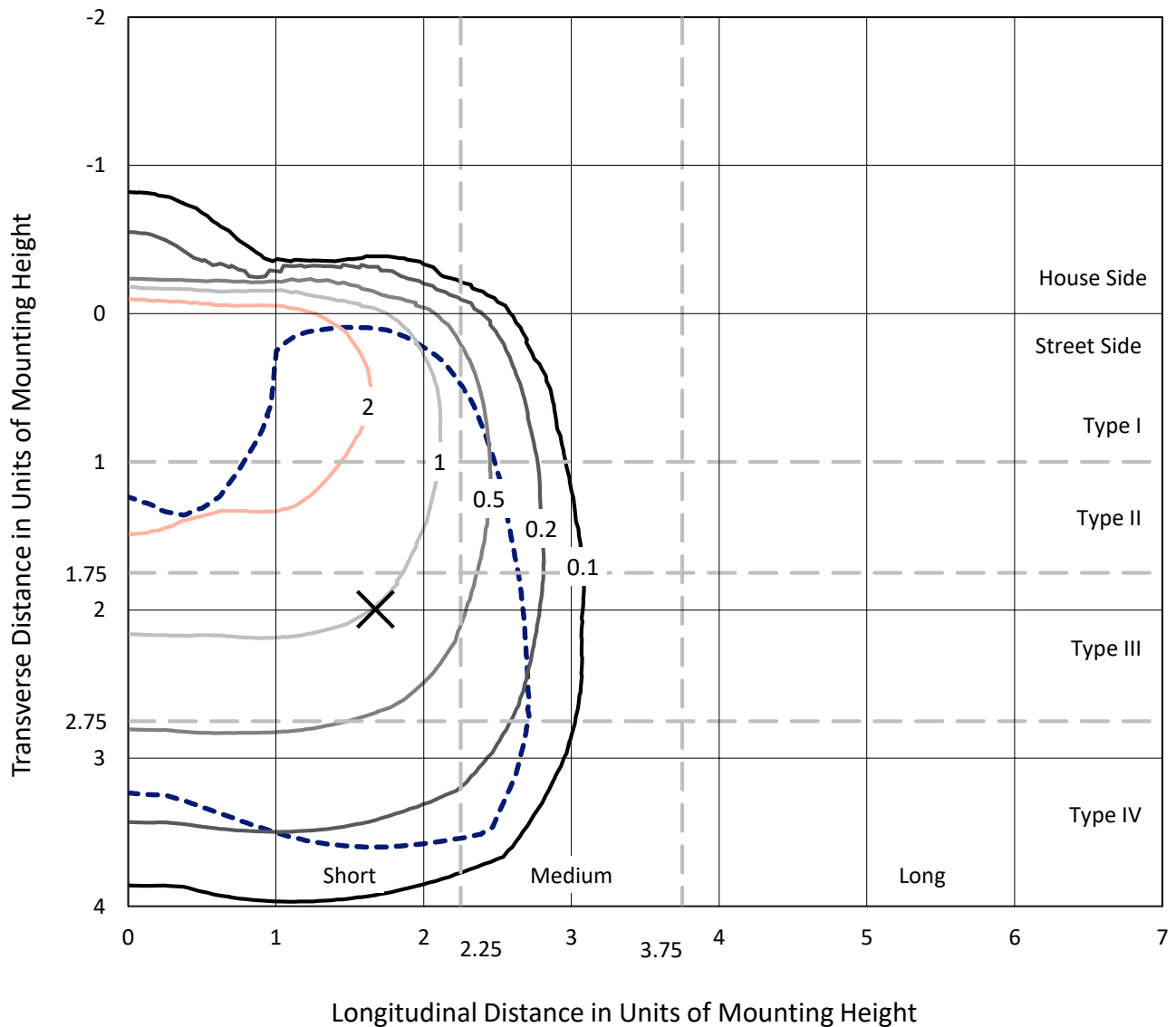


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

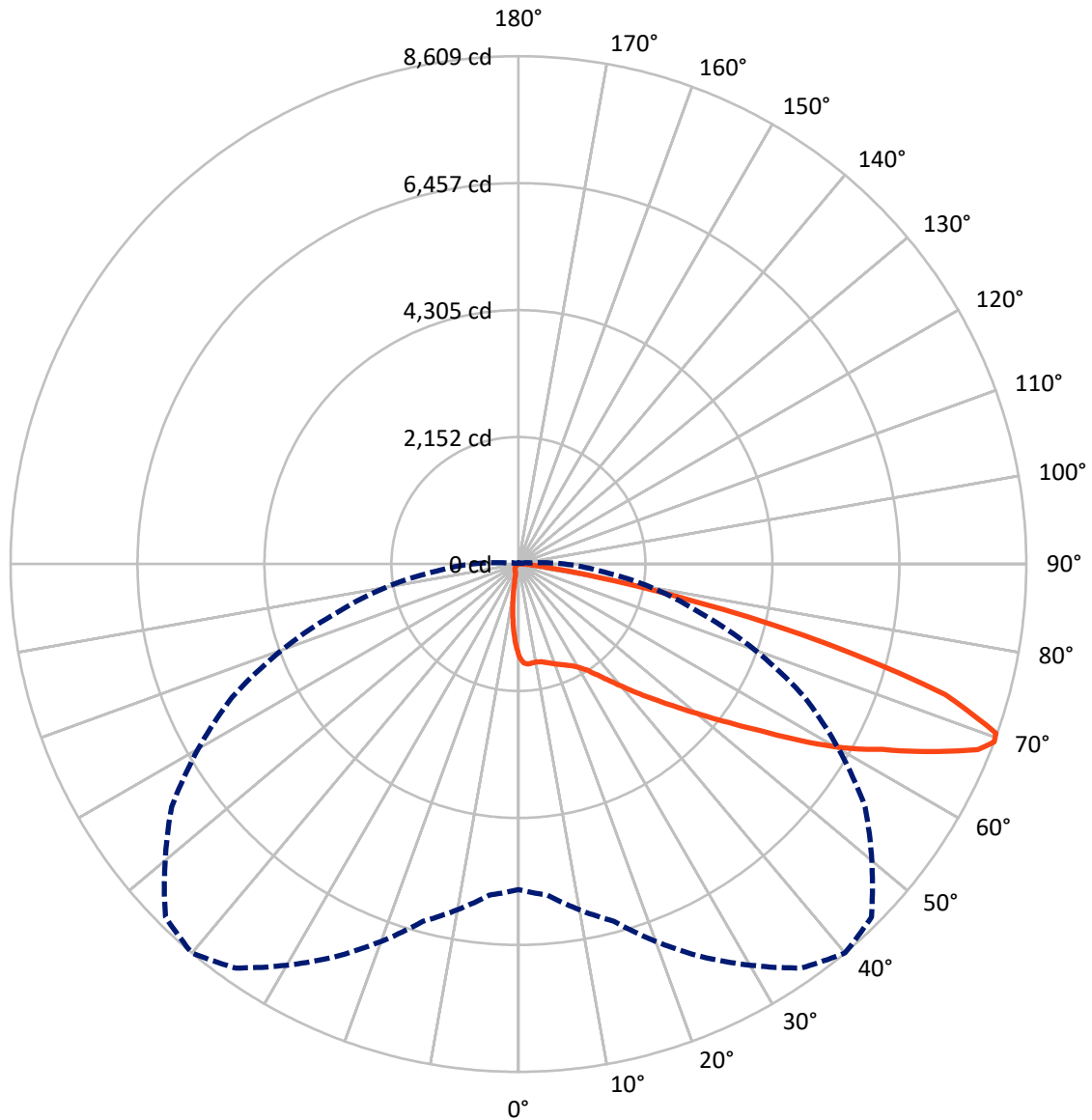


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.0	0.0	613.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	9864.0	0.0	9864.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	10477.0	0.0	10477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.2
10°-20°	312.1	3.0
20°-30°	525.7	5.0
30°-40°	860.6	8.2
40°-50°	1490.1	14.2
50°-60°	2347.0	22.4
60°-70°	3065.1	29.3
70°-80°	1578.7	15.1
80°-90°	170.8	1.6
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°	10477.0	100.0
0°-180°	10477.0	100.0

Coefficient of Utilization



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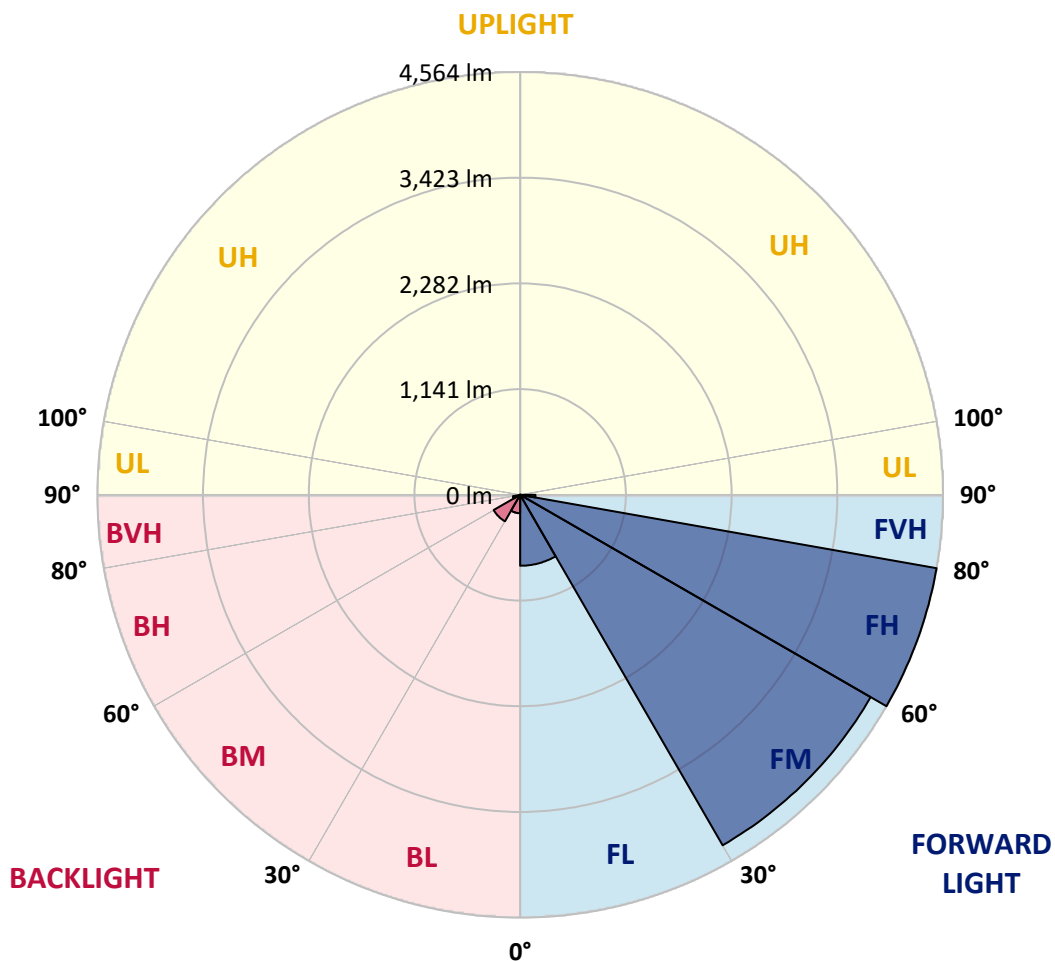
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.2	7.3			
FM	(30°-60°)	4368.2	41.7			
FH	(60°-80°)	4564.2	43.6			G2/5000
FVH	(80°-90°)	165.4	1.6			G2/225
BL	(0°-30°)	198.6	1.9	B1/500		
BM	(30°-60°)	329.5	3.1	B1/1000		
BH	(60°-80°)	79.6	0.8	B0/110		G0/110
BVH	(80°-90°)	5.4	0.1			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°	40°	45°	55°	65°	75°	85°
0°	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3
2.5°	1718.7	1709.4	1703.8	1696.3	1686.9	1678.8	1675.7	1652.6	1630.8	1600.9	1566.6
5°	1750.5	1747.4	1737.4	1727.5	1716.2	1703.8	1696.9	1669.5	1638.3	1594.6	1534.8
7.5°	1753.7	1749.9	1737.4	1723.7	1708.1	1693.2	1681.3	1653.9	1625.2	1580.9	1507.9
10°	1748.7	1744.3	1734.9	1720.0	1700.6	1686.3	1674.5	1648.3	1623.9	1584.0	1503.0
12.5°	1743.1	1738.7	1734.3	1726.8	1710.0	1700.0	1690.0	1665.1	1643.3	1609.6	1521.0
15°	1748.7	1746.2	1751.2	1748.0	1738.7	1730.0	1720.0	1697.5	1677.6	1649.5	1554.1
17.5°	1772.4	1772.4	1788.0	1789.8	1781.1	1768.6	1754.3	1731.8	1715.0	1691.3	1593.4
20°	1827.9	1826.0	1846.0	1849.7	1828.5	1809.2	1788.0	1760.5	1747.4	1732.5	1632.0
22.5°	1923.3	1914.6	1926.4	1922.7	1880.9	1850.9	1824.7	1791.1	1784.2	1777.4	1675.1
25°	2047.4	2042.4	2050.5	2013.7	1940.1	1899.6	1868.4	1830.4	1830.4	1837.2	1723.7
27.5°	2227.6	2208.9	2181.5	2116.6	2006.2	1954.5	1920.8	1880.3	1890.9	1916.4	1788.0
30°	2412.2	2391.6	2328.6	2228.9	2086.7	2032.4	1993.1	1950.7	1975.7	2022.4	1874.0
32.5°	2594.3	2571.2	2482.1	2356.1	2202.0	2147.8	2109.7	2063.0	2104.8	2183.3	2000.0
35°	2770.8	2750.2	2647.3	2498.9	2355.5	2310.6	2275.6	2235.1	2288.7	2398.5	2177.7
37.5°	2969.1	2946.7	2821.3	2660.4	2541.9	2509.5	2483.9	2443.4	2536.9	2697.8	2425.3
40°	3213.0	3174.9	3005.9	2845.6	2757.7	2742.1	2724.7	2719.0	2864.3	3087.0	2755.2
42.5°	3492.3	3430.0	3199.2	3040.8	2994.7	3005.9	3001.5	3026.5	3274.1	3570.9	3156.8
45°	3771.7	3691.3	3414.4	3249.1	3255.4	3294.7	3319.0	3418.8	3787.3	4126.0	3589.0
47.5°	4008.7	3929.5	3620.8	3474.3	3549.1	3626.4	3692.5	3881.5	4314.9	4672.3	3925.1
50°	4211.4	4136.6	3839.7	3721.8	3890.2	4014.9	4122.2	4402.2	4882.4	5088.2	4160.9
52.5°	4377.3	4327.4	4066.7	4005.6	4280.0	4462.7	4619.9	4955.4	5385.1	5426.2	4344.2
55°	4538.8	4503.3	4310.5	4343.0	4737.7	4986.6	5185.5	5542.2	5817.9	5708.1	4520.1
57.5°	4724.6	4692.2	4588.7	4770.8	5339.5	5652.6	5869.6	6062.3	6198.9	5996.2	4686.0
60°	4914.2	4895.5	4898.0	5246.0	6030.5	6331.1	6450.9	6500.7	6573.1	6267.5	4695.3
62.5°	5095.1	5130.6	5251.6	5774.8	6692.2	6922.9	6983.4	7032.7	6947.9	6310.5	4338.0
65°	5401.3	5459.3	5748.0	6482.7	7420.0	7666.9	7729.3	7560.3	7007.1	5754.3	3528.5
67.5°	5551.0	5657.0	6172.1	7142.5	8125.9	8400.3	8377.3	7594.6	6288.1	4387.9	2264.4
69°	5519.8	5632.6	6270.0	7344.5	8360.4	8609.2	8462.7	7174.9	5357.0	3178.7	1390.1
70°	5396.3	5510.4	6219.5	7337.0	8390.4	8587.4	8304.3	6656.7	4529.4	2324.3	869.3
72.5°	4506.4	4604.9	5521.6	6631.7	7729.3	7569.0	6947.3	4611.8	2207.0	633.0	195.8
75°	2773.9	2828.8	3961.9	4995.9	5837.8	5426.2	4628.6	2294.3	657.9	179.0	108.5
77.5°	1465.5	1490.5	2169.0	2944.8	3700.6	3062.0	2372.3	894.9	303.1	112.3	78.6
80°	866.2	884.9	1168.1	1346.4	1601.5	1337.7	948.5	549.4	217.0	70.5	69.8
82.5°	495.8	507.6	846.9	748.4	631.1	538.8	472.1	520.7	130.3	47.4	72.3
85°	182.1	184.6	476.5	569.4	375.4	223.3	234.5	431.6	34.9	29.9	56.8
87.5°	84.8	82.9	245.1	348.6	219.5	141.6	182.7	94.8	13.7	19.3	15.6
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°	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3	1565.3
2.5°	1546.6	1523.5	1481.8	1438.7	1395.1	1361.4	1328.3	1302.1	1293.4	1277.2	1278.4
5°	1499.2	1456.8	1369.5	1280.9	1188.6	1112.6	1040.8	982.8	954.8	926.1	926.1
7.5°	1458.1	1396.3	1259.7	1115.7	966.6	841.3	728.4	643.6	596.8	559.4	558.8
10°	1442.5	1358.9	1168.1	961.6	754.0	583.1	449.0	363.0	318.7	290.0	288.7
12.5°	1449.3	1345.8	1097.6	819.5	558.8	374.8	260.1	204.6	185.8	177.1	177.1
15°	1469.3	1342.1	1027.1	680.4	394.8	234.5	172.7	157.8	156.5	156.5	156.5
17.5°	1493.6	1343.3	954.8	545.1	268.8	167.8	149.0	147.2	148.4	148.4	148.4
20°	1518.5	1343.9	876.8	419.7	189.6	145.9	140.3	139.7	140.9	140.9	141.6
22.5°	1549.1	1347.0	798.9	313.7	156.5	137.8	133.5	133.5	134.1	134.1	133.5
25°	1584.0	1353.3	717.8	232.6	142.8	132.2	128.5	127.8	128.5	127.8	127.2
27.5°	1627.7	1362.0	627.4	182.1	136.6	126.6	123.5	123.5	122.9	122.2	121.6
30°	1682.6	1372.0	525.7	154.7	130.3	121.6	118.5	117.9	117.2	116.0	116.0
32.5°	1766.1	1393.8	425.3	140.3	123.5	114.7	112.3	112.3	111.0	109.8	109.1
35°	1894.6	1436.8	335.5	131.6	116.0	107.3	104.1	104.1	102.9	102.3	101.7
37.5°	2072.3	1502.3	260.7	123.5	108.5	99.2	96.0	95.4	94.2	92.9	92.3
40°	2308.7	1583.4	205.2	116.0	101.0	91.1	88.6	87.3	84.8	82.9	82.9
42.5°	2605.5	1675.7	166.5	107.9	92.3	83.6	81.7	79.8	75.5	73.6	73.0
45°	2916.1	1758.6	140.9	98.5	83.6	76.1	74.8	71.7	66.1	64.2	64.2
47.5°	3140.0	1778.0	124.1	89.8	75.5	68.0	67.4	61.7	56.8	55.5	54.9
50°	3279.7	1739.9	110.4	81.1	68.0	60.5	58.6	51.8	48.6	47.4	46.8
52.5°	3373.9	1672.0	99.2	73.6	61.1	53.6	49.3	44.3	41.8	40.5	40.5
55°	3449.3	1575.9	87.9	66.7	55.5	48.0	41.8	38.0	35.5	34.3	34.3
57.5°	3470.5	1445.6	76.7	61.1	49.9	42.4	35.5	33.1	29.9	29.3	29.3
60°	3316.5	1210.5	68.0	54.3	44.9	36.8	31.2	28.1	24.9	24.3	23.7
62.5°	2910.5	936.7	59.9	48.0	39.3	31.8	26.8	23.1	20.6	20.6	20.6
65°	2220.1	628.0	52.4	41.8	34.3	26.8	23.1	18.7	17.5	17.5	18.1
67.5°	1329.0	341.8	44.9	35.5	29.3	22.5	19.3	16.2	15.6	16.2	16.2
69°	778.9	200.8	40.5	31.8	25.6	20.0	16.8	14.3	15.6	16.2	16.2
70°	480.8	135.3	37.4	28.7	23.1	18.1	15.6	13.7	15.0	15.6	15.6
72.5°	134.1	69.8	29.9	22.5	18.7	15.0	12.5	12.5	14.3	15.0	15.0
75°	87.3	51.8	23.1	16.8	14.3	11.8	10.6	11.8	13.7	14.3	14.3
77.5°	72.3	42.4	18.7	13.7	11.8	11.2	10.0	10.6	12.5	13.1	13.1
80°	66.1	29.9	15.0	12.5	10.6	10.0	9.4	8.7	11.2	11.8	11.8
82.5°	63.0	23.7	13.1	11.2	10.0	8.7	8.1	8.7	10.0	10.6	11.2
85°	39.3	15.6	11.8	10.6	8.7	8.1	8.1	8.1	9.4	10.0	10.0
87.5°	14.3	12.5	10.6	8.7	7.5	7.5	7.5	7.5	8.1	9.4	9.4
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)