

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: P321186

Luminaire Tested: **GAN-SA2A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6436 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

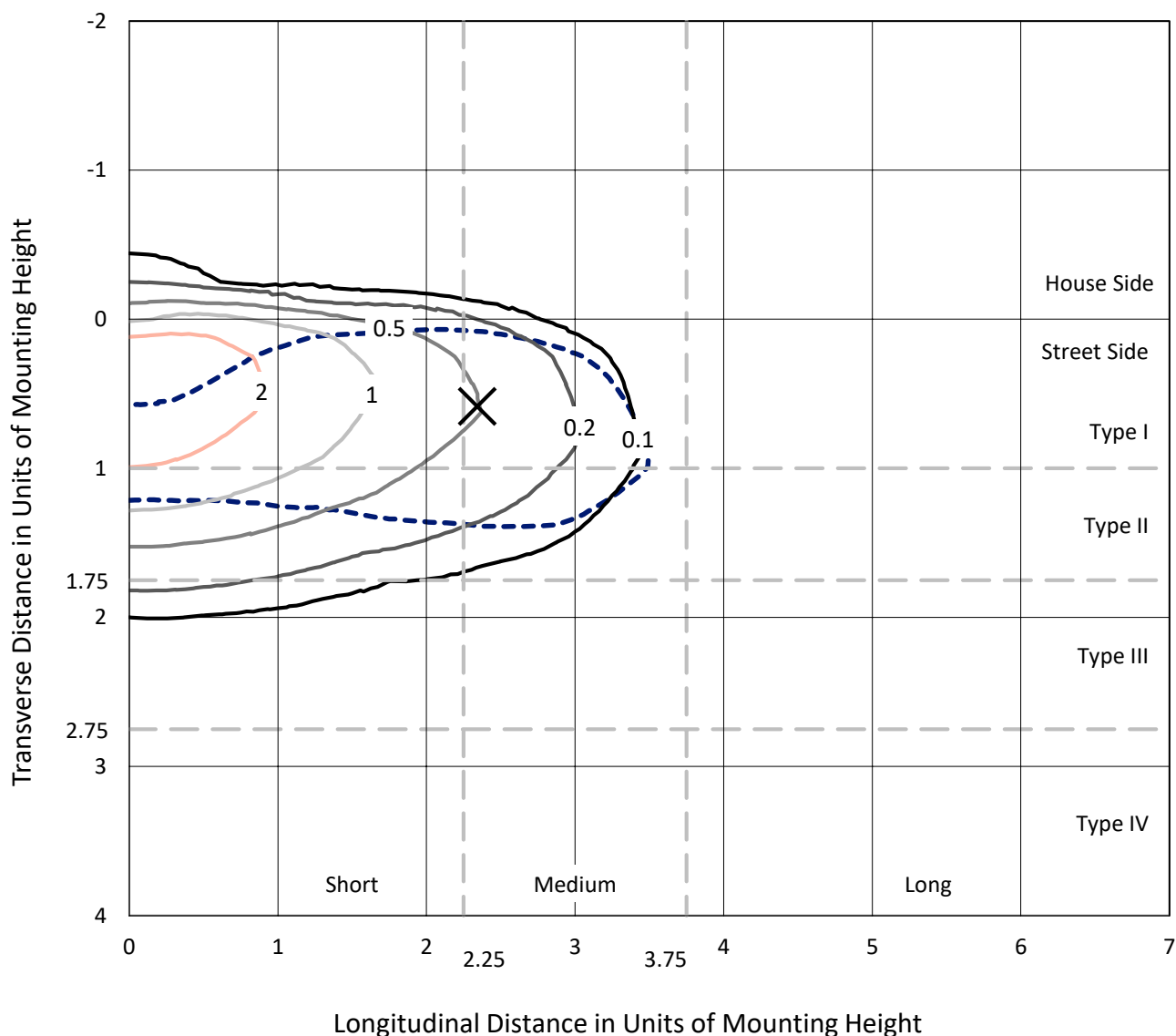
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

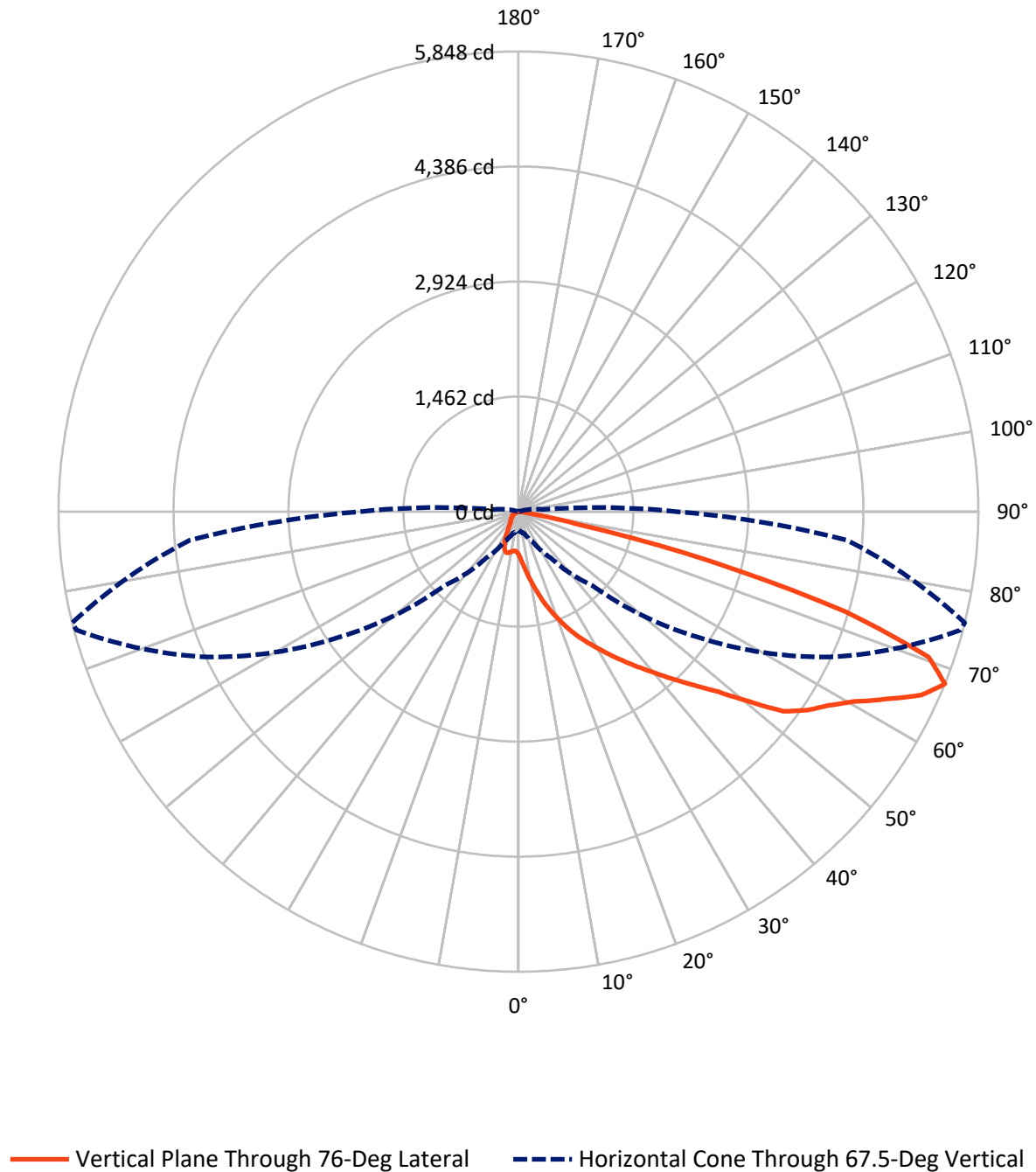
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	319.6	0.0	319.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6116.4	0.0	6116.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	6436.0	0.0	6436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.1
10°-20°	269.1	4.2
20°-30°	547.6	8.5
30°-40°	950.4	14.8
40°-50°	1342.8	20.9
50°-60°	1522.8	23.7
60°-70°	1263.0	19.6
70°-80°	457.5	7.1
80°-90°	14.8	0.2
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°	6436.0	100.0
0°-180°	6436.0	100.0

Coefficient of Utilization



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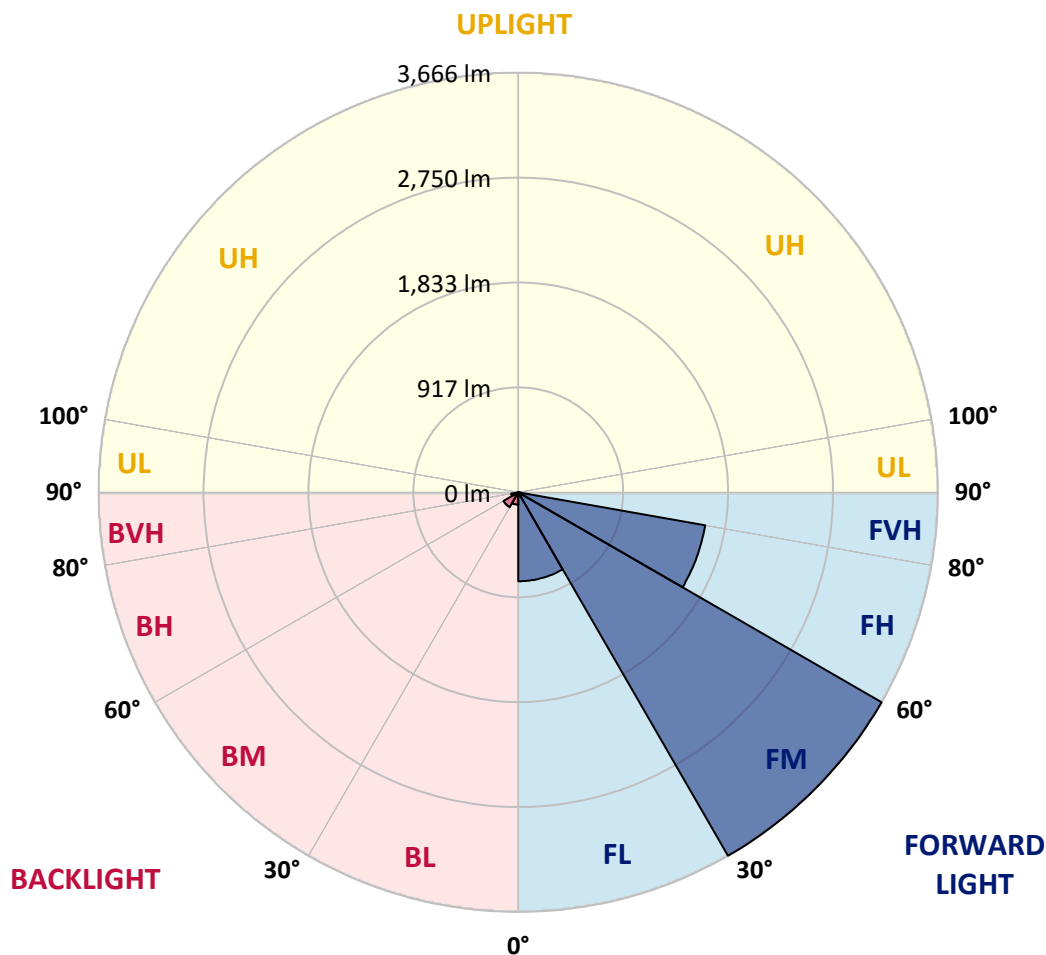
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	776.8	12.1			
FM	(30°-60°)	3666.5	57.0			
FH	(60°-80°)	1658.8	25.8			G1/1800
FVH	(80°-90°)	14.4	0.2			G1/100
BL	(0°-30°)	107.8	1.7	B0/110		
BM	(30°-60°)	149.6	2.3	B0/220		
BH	(60°-80°)	61.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	815.0	796.7	800.9	789.0	767.6	723.6	686.1	650.6	609.1	607.7	573.6
5°	1099.0	1083.5	1081.5	1057.5	1018.6	943.9	871.1	788.2	695.7	688.9	616.5
7.5°	1356.7	1344.3	1339.8	1311.3	1238.8	1166.1	1071.3	949.5	804.8	792.4	674.3
10°	1554.7	1548.8	1549.9	1529.6	1467.5	1399.9	1275.5	1120.1	928.6	909.5	743.6
12.5°	1704.7	1706.1	1716.3	1703.9	1669.2	1619.0	1486.2	1302.0	1065.7	1039.5	822.9
15°	1815.0	1822.0	1840.6	1856.1	1853.6	1810.2	1688.4	1486.7	1211.2	1182.2	911.2
17.5°	1886.3	1894.2	1921.3	1955.7	1987.3	1977.1	1883.5	1664.9	1358.4	1324.9	1005.6
20°	1948.9	1958.2	1987.3	2032.7	2091.6	2104.3	2042.8	1837.8	1505.3	1464.4	1103.2
22.5°	2084.6	2084.3	2102.1	2128.6	2184.7	2217.4	2178.5	1998.3	1650.6	1608.0	1202.7
25°	2329.9	2320.6	2314.4	2293.5	2305.9	2326.2	2304.5	2148.3	1796.6	1753.5	1303.7
27.5°	2621.5	2627.1	2576.9	2520.8	2477.4	2456.5	2421.0	2287.3	1937.1	1889.7	1402.4
30°	2929.2	2930.9	2871.6	2800.0	2704.4	2625.2	2563.7	2420.2	2081.5	2029.9	1498.3
32.5°	3206.7	3195.7	3137.0	3039.4	2918.7	2829.6	2701.9	2568.5	2234.3	2184.4	1604.9
35°	3426.6	3413.7	3342.3	3253.5	3128.3	3038.6	2884.9	2716.5	2395.1	2346.3	1711.8
37.5°	3587.4	3572.1	3498.8	3407.5	3299.4	3247.3	3097.2	2877.6	2570.5	2518.0	1824.3
40°	3643.2	3630.0	3584.0	3517.2	3430.3	3418.4	3322.6	3062.8	2761.4	2705.5	1951.7
42.5°	3609.9	3597.0	3580.6	3558.0	3521.9	3533.2	3535.2	3274.1	2973.4	2918.5	2092.5
45°	3478.0	3466.4	3483.3	3516.3	3561.1	3617.0	3729.2	3501.1	3210.3	3151.7	2255.2
47.5°	3283.7	3275.2	3322.0	3404.3	3535.5	3689.5	3906.6	3739.7	3476.3	3421.8	2458.2
50°	3007.3	3005.9	3099.5	3249.8	3451.4	3724.4	4089.9	4010.9	3845.7	3788.4	2740.5
52.5°	2576.9	2579.8	2763.9	3004.5	3304.0	3700.7	4207.8	4359.5	4275.5	4216.0	2985.0
55°	2167.2	2184.1	2314.7	2661.6	3077.8	3612.7	4248.4	4522.2	4512.6	4456.2	3120.9
57.5°	1765.9	1796.6	1922.4	2246.4	2747.6	3410.0	4226.1	4592.7	4689.2	4646.0	3300.3
60°	1331.1	1345.2	1490.1	1793.0	2323.7	3040.0	4064.5	4631.1	4930.6	4900.7	3560.6
62.5°	846.9	882.1	1010.7	1302.9	1809.3	2526.2	3792.1	4630.5	5232.6	5248.9	3896.4
65°	446.1	487.3	555.5	807.4	1243.4	1952.3	3382.4	4587.1	5603.1	5626.0	4159.0
67.5°	240.5	252.4	288.5	419.1	721.1	1322.6	2780.3	4372.7	5817.7	5847.9	4195.7
70°	176.0	182.5	196.0	231.8	362.9	768.2	2028.7	3886.9	5541.1	5529.8	3727.8
72.5°	135.1	145.2	155.4	169.8	208.7	410.0	1263.1	3043.7	4421.3	4346.8	2786.5
75°	106.6	108.3	122.7	135.6	156.5	233.5	560.9	1772.7	2698.5	2522.2	1445.0
77.5°	85.2	86.3	94.8	106.0	125.8	153.4	173.7	697.4	861.5	768.7	313.6
80°	50.5	53.3	70.5	81.8	104.3	96.7	63.5	151.4	134.5	121.8	52.7
82.5°	28.2	30.5	39.8	64.6	72.8	46.2	31.6	40.9	31.6	30.7	14.9
85°	0.0	1.4	25.7	40.0	29.6	10.2	13.3	13.5	9.3	8.7	5.9
87.5°	0.0	0.0	7.9	7.6	1.1	1.7	3.1	4.5	3.7	3.7	3.1
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°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	556.7	541.4	512.7	484.5	460.8	441.3	423.9	416.8	411.2	410.3	405.8
5°	581.5	550.8	495.8	450.6	420.5	399.0	380.7	369.4	360.7	357.3	354.2
7.5°	619.0	572.5	493.5	441.6	405.5	369.4	335.6	298.9	276.1	267.3	262.3
10°	664.7	601.2	502.0	439.1	375.9	299.8	243.7	197.1	178.2	172.0	170.3
12.5°	718.0	637.0	516.6	423.3	312.7	212.9	168.1	152.3	148.1	146.1	146.1
15°	779.2	676.2	527.1	377.6	231.2	161.0	145.5	138.2	133.7	131.1	131.4
17.5°	841.8	714.6	522.0	311.3	170.6	143.3	131.7	123.8	117.6	115.1	114.5
20°	904.9	750.1	493.8	231.8	144.4	130.0	117.0	108.3	102.1	99.5	99.0
22.5°	970.4	780.3	444.2	170.0	129.7	115.3	102.6	93.9	88.0	85.7	84.6
25°	1034.1	804.8	374.8	137.6	115.9	101.5	89.4	81.2	75.9	73.6	73.3
27.5°	1093.6	820.3	294.4	121.5	103.8	89.1	78.1	70.8	66.3	64.6	64.3
30°	1147.2	821.8	217.7	109.7	93.1	78.4	68.2	61.8	57.8	56.1	55.6
32.5°	1201.3	809.9	158.5	99.0	83.2	69.1	59.2	54.1	51.3	49.9	49.9
35°	1252.4	782.6	123.5	89.7	73.6	60.1	52.2	48.5	46.8	45.4	45.4
37.5°	1302.3	743.4	104.9	81.5	64.6	52.5	46.0	43.7	42.3	40.9	40.9
40°	1353.1	694.0	95.3	73.9	57.2	46.5	40.9	38.9	37.5	36.4	36.1
42.5°	1415.4	637.0	89.1	66.8	50.8	41.2	36.1	33.8	32.7	31.6	31.0
45°	1487.6	588.0	84.0	59.8	45.4	36.7	31.3	29.0	27.4	25.9	25.7
47.5°	1591.6	552.4	77.3	52.2	40.3	31.9	27.1	24.5	22.0	20.6	20.3
50°	1724.5	523.1	68.5	45.4	35.3	27.1	22.6	19.5	17.2	15.8	15.8
52.5°	1790.4	484.8	60.6	39.5	29.6	22.8	18.3	14.7	13.5	12.1	12.1
55°	1816.9	455.4	52.7	33.6	24.5	18.9	14.4	11.3	10.4	9.6	9.3
57.5°	1891.4	447.0	46.0	28.5	20.3	14.9	11.0	8.5	7.9	6.8	6.8
60°	2011.3	451.2	39.8	24.3	16.4	11.6	8.2	6.5	5.9	4.8	4.8
62.5°	2140.7	445.8	33.6	20.9	12.7	8.5	5.6	4.8	4.8	2.8	2.5
65°	2165.5	397.1	28.8	17.2	9.9	6.2	3.7	3.1	4.2	0.6	0.0
67.5°	2009.8	307.9	24.8	13.3	7.3	4.8	2.8	1.4	3.7	0.0	0.0
70°	1607.1	195.7	20.0	9.6	5.6	3.9	2.3	0.6	2.8	0.0	0.0
72.5°	1136.5	113.6	15.8	6.8	4.8	3.1	1.7	0.0	1.7	0.0	0.0
75°	574.7	60.6	9.9	5.1	3.7	2.3	1.1	0.0	0.3	0.0	0.0
77.5°	124.4	28.2	6.2	3.7	2.5	1.4	0.6	0.0	0.0	0.0	0.0
80°	27.1	12.4	3.9	2.3	1.4	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	9.9	6.5	2.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	3.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.1	0.3	0.3	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)