

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: P233751

Luminaire Tested: **VERD-C02H-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H-D-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13708 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 120
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

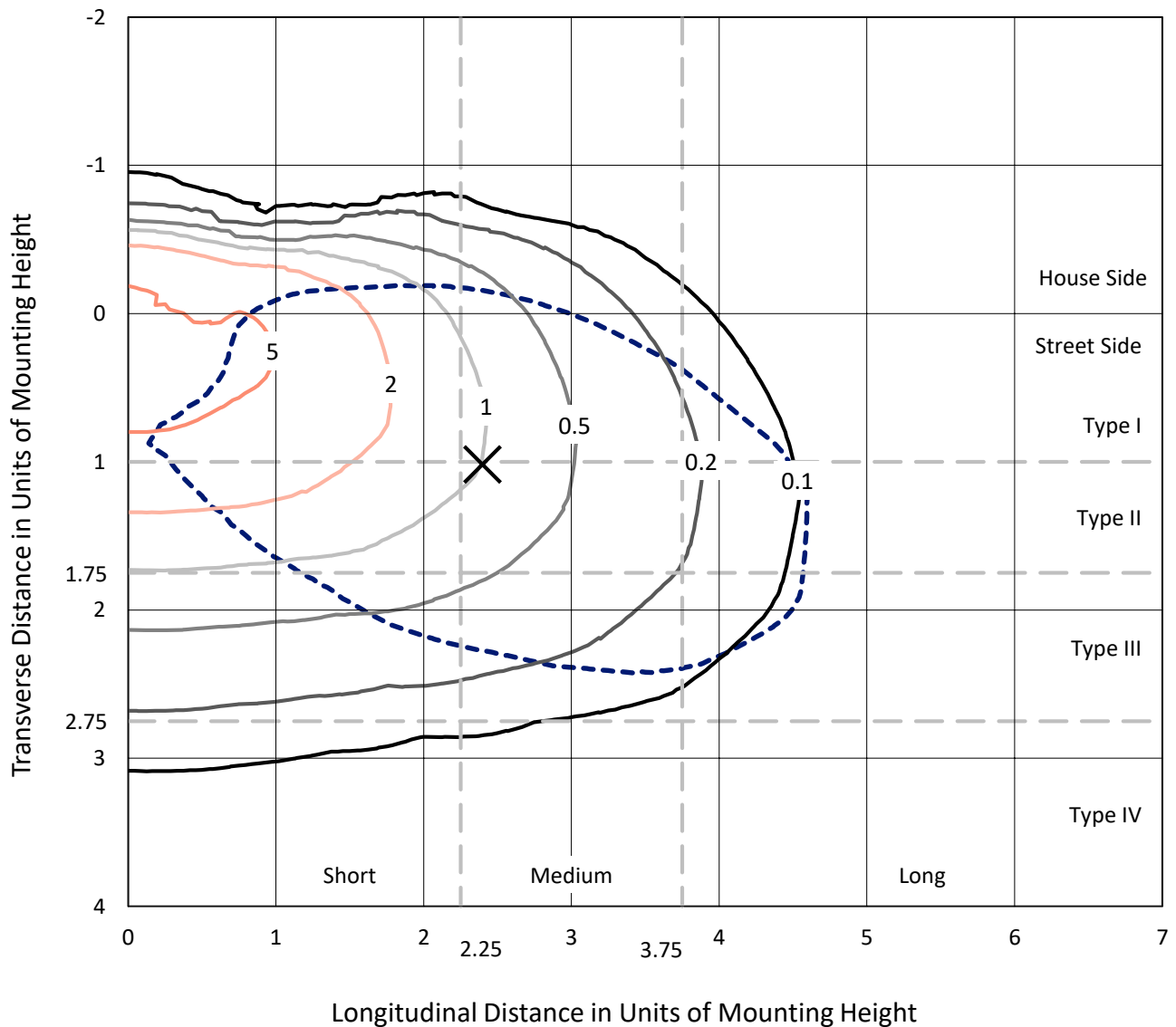


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

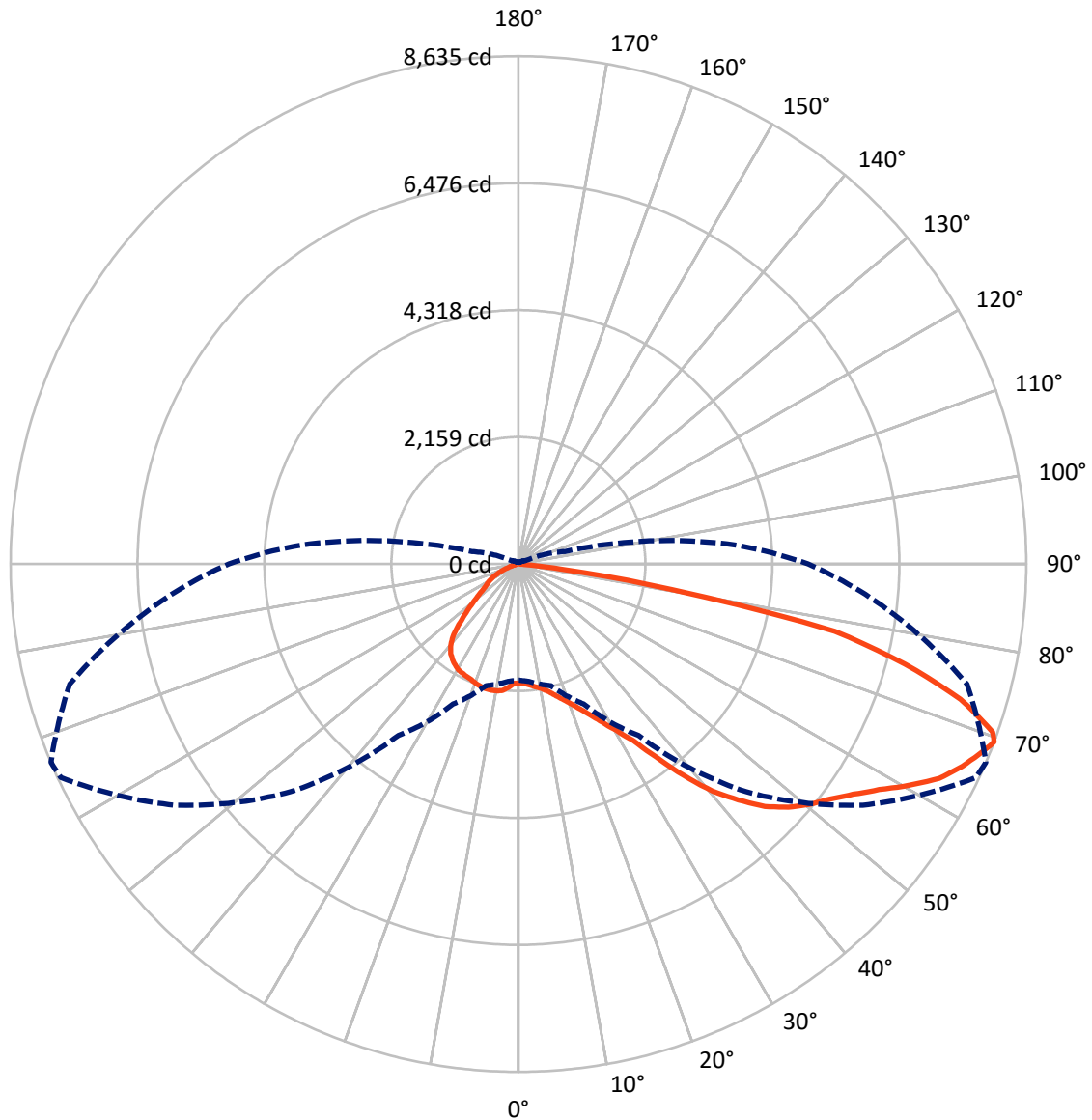


Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.2	0.0	2471.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	11236.8	0.0	11236.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	13708.0	0.0	13708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	1.5
10°-20°	643.5	4.7
20°-30°	1098.4	8.0
30°-40°	1660.8	12.1
40°-50°	2346.2	17.1
50°-60°	2835.5	20.7
60°-70°	2991.9	21.8
70°-80°	1801.1	13.1
80°-90°	125.9	0.9
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°	13708.0	100.0
0°-180°	13708.0	100.0

Coefficient of Utilization



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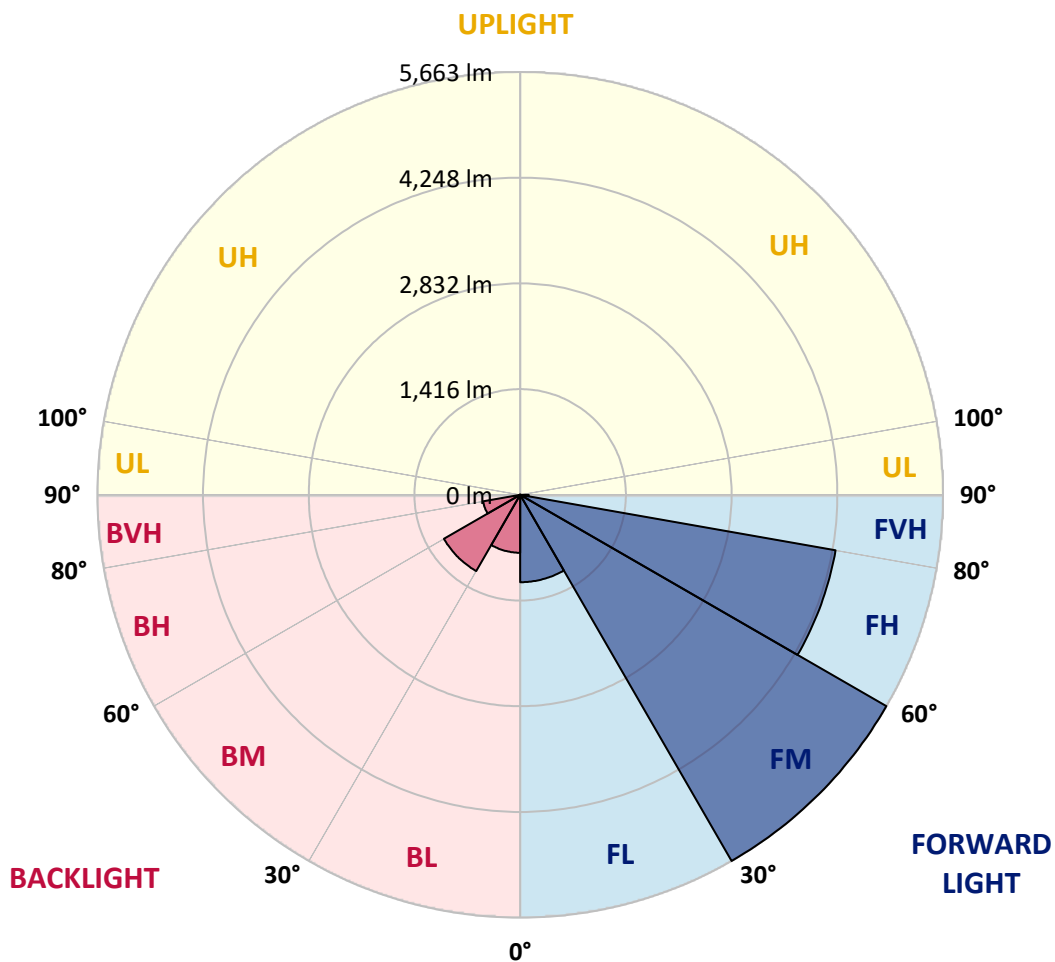
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.5	8.5			
FM (30°-60°)	5663.4	41.3			
FH (60°-80°)	4289.2	31.3			G2/5000
FVH (80°-90°)	113.7	0.8			G2/225
BL (0°-30°)	776.1	5.7	B2/1000		
BM (30°-60°)	1179.1	8.6	B2/2500		
BH (60°-80°)	503.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2
2.5°	2079.6	2076.4	2076.4	2057.8	2040.3	2035.9	2034.9	2029.4	2030.5	2022.8	2015.2
5°	2139.7	2139.7	2137.5	2113.5	2094.9	2082.9	2075.3	2065.4	2066.5	2061.1	2054.5
7.5°	2230.4	2231.5	2227.1	2195.4	2176.8	2147.4	2129.9	2111.3	2110.2	2103.7	2105.8
10°	2341.8	2345.0	2338.5	2298.1	2266.4	2226.0	2188.9	2156.1	2153.9	2146.3	2152.8
12.5°	2467.4	2471.8	2455.4	2413.9	2377.8	2314.5	2269.7	2226.0	2219.4	2218.3	2222.7
15°	2611.6	2613.7	2608.3	2547.1	2503.4	2445.5	2372.4	2316.7	2310.1	2311.2	2305.7
17.5°	2772.1	2777.6	2765.6	2711.0	2653.1	2573.3	2485.9	2417.1	2413.9	2410.6	2386.6
20°	2942.5	2948.0	2940.3	2889.0	2820.2	2719.7	2612.6	2534.0	2532.9	2525.3	2469.6
22.5°	3134.7	3142.4	3138.0	3075.8	3002.6	2893.4	2760.1	2678.2	2676.0	2652.0	2567.9
25°	3343.4	3341.2	3345.5	3278.9	3210.1	3095.4	2930.5	2845.3	2845.3	2815.8	2691.3
27.5°	3545.4	3544.3	3552.0	3505.0	3432.9	3324.8	3126.0	3039.7	3047.4	3004.8	2839.8
30°	3742.0	3742.0	3760.6	3730.0	3676.5	3562.9	3368.5	3277.8	3287.7	3242.9	3027.7
32.5°	3925.5	3934.3	3965.9	3947.4	3907.0	3804.3	3638.3	3555.3	3578.2	3596.8	3377.2
35°	4061.0	4069.7	4142.9	4149.4	4139.6	4070.8	3947.4	4000.9	4028.2	4174.6	3929.9
37.5°	4180.0	4190.9	4278.3	4332.9	4364.6	4322.0	4329.7	4508.8	4560.1	4732.7	4401.7
40°	4267.4	4291.4	4377.7	4453.1	4564.5	4614.7	4739.3	4993.7	5076.8	5145.6	4726.1
42.5°	4207.3	4223.7	4375.5	4577.6	4740.3	4917.3	5119.4	5421.9	5484.2	5462.3	5012.3
45°	4118.9	4138.5	4298.0	4610.4	4880.2	5232.9	5479.8	5807.5	5878.5	5757.2	5259.2
47.5°	4019.5	4046.8	4219.3	4566.7	4997.0	5523.5	5806.4	6138.4	6179.9	6020.5	5466.7
50°	3919.0	3949.6	4145.1	4530.6	5087.7	5766.0	6044.5	6408.2	6420.2	6238.9	5653.5
52.5°	3783.5	3815.2	4029.3	4455.3	5151.0	5925.4	6253.1	6629.9	6637.6	6474.8	5830.4
55°	3612.1	3652.5	3878.6	4343.9	5166.3	6018.3	6385.3	6860.4	6911.7	6730.4	5975.7
57.5°	3410.0	3447.1	3696.2	4183.3	5089.9	6049.9	6569.9	7165.1	7236.1	6989.3	6095.8
60°	3177.3	3219.9	3470.1	3975.8	4935.9	6138.4	6875.7	7595.5	7638.1	7260.2	6201.8
62.5°	2939.2	2969.8	3197.0	3684.1	4695.6	6191.9	7146.6	7999.6	8028.0	7521.2	6265.1
65°	2600.6	2638.9	2860.6	3349.9	4349.3	6089.3	7250.3	8275.9	8293.4	7739.6	6234.5
67.5°	2232.5	2263.1	2424.8	2946.9	3894.9	5763.8	7207.7	8460.5	8516.2	7910.0	6095.8
69°	1971.5	2002.1	2141.9	2624.7	3557.4	5475.4	7147.7	8586.1	8635.3	7898.0	5918.9
70°	1768.3	1798.9	1931.1	2384.4	3293.1	5231.9	7052.6	8522.8	8554.5	7763.7	5746.3
72.5°	1264.8	1295.4	1403.5	1676.6	2494.7	4300.2	6463.9	7819.4	7862.0	7118.2	5135.7
75°	661.9	735.1	929.5	1083.5	1477.8	3027.7	5373.8	6725.0	6787.2	6246.5	4223.7
77.5°	85.2	89.6	262.1	440.2	610.6	1276.8	3817.4	5400.1	5498.4	4999.2	2920.7
80°	68.8	69.9	90.7	219.5	303.6	517.7	1354.4	2527.5	2646.5	2221.6	1073.7
82.5°	48.1	50.2	71.0	115.8	99.4	189.0	470.8	714.3	736.2	636.8	428.2
85°	27.3	27.3	33.9	44.8	31.7	71.0	97.2	103.8	92.8	91.7	68.8
87.5°	7.6	8.7	9.8	7.6	3.3	3.3	4.4	4.4	4.4	3.3	3.3
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°	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2	2027.2
2.5°	2027.2	2025.0	2026.1	2030.5	2037.0	2061.1	2077.4	2079.6	2087.3	2115.7	2112.4
5°	2062.2	2075.3	2082.9	2105.8	2121.1	2153.9	2173.6	2175.8	2186.7	2216.2	2217.3
7.5°	2111.3	2133.2	2144.1	2170.3	2175.8	2191.0	2196.5	2191.0	2192.1	2218.3	2220.5
10°	2153.9	2181.2	2181.2	2187.8	2177.9	2179.0	2161.6	2145.2	2136.4	2159.4	2164.8
12.5°	2219.4	2227.1	2209.6	2190.0	2160.5	2134.2	2104.8	2078.5	2057.8	2070.9	2063.3
15°	2287.2	2275.1	2232.5	2181.2	2128.8	2084.0	2022.8	1984.6	1948.6	1956.2	1949.7
17.5°	2354.9	2315.6	2248.9	2163.7	2087.3	2002.1	1916.9	1856.8	1791.3	1785.8	1776.0
20°	2420.4	2363.6	2253.3	2127.7	2020.7	1900.5	1768.3	1665.7	1568.5	1543.3	1527.0
22.5°	2499.1	2417.1	2258.8	2092.7	1948.6	1784.7	1584.8	1425.4	1320.5	1285.6	1269.2
25°	2599.5	2491.4	2274.1	2066.5	1875.4	1641.6	1367.5	1185.1	1071.5	1011.4	1006.0
27.5°	2718.6	2581.0	2300.3	2032.7	1771.6	1450.5	1142.5	952.4	831.2	770.0	750.4
30°	2874.8	2692.4	2324.3	2006.5	1625.3	1241.9	906.6	694.7	550.5	511.2	490.4
32.5°	3170.8	2873.7	2354.9	1945.3	1452.7	1013.6	642.2	428.2	329.9	303.6	303.6
35°	3652.5	3272.4	2431.3	1861.2	1245.2	738.4	385.6	240.3	196.6	181.3	173.7
37.5°	4087.2	3674.3	2622.5	1731.2	992.9	436.9	220.6	148.5	134.3	136.5	136.5
40°	4394.1	3949.6	2833.3	1555.4	673.9	233.7	139.8	119.1	121.2	122.3	122.3
42.5°	4657.3	4184.4	2949.1	1346.7	367.0	151.8	120.1	108.1	111.4	110.3	109.2
45°	4878.0	4375.5	2987.3	1059.5	178.0	134.3	109.2	99.4	99.4	98.3	98.3
47.5°	5066.9	4544.8	2916.3	787.5	144.2	123.4	103.8	91.7	90.7	96.1	96.1
50°	5239.5	4675.9	2739.4	596.4	139.8	113.6	98.3	85.2	86.3	93.9	93.9
52.5°	5383.7	4753.4	2477.2	446.7	130.0	104.9	90.7	79.7	79.7	87.4	87.4
55°	5490.7	4753.4	2277.3	334.2	124.5	96.1	84.1	76.5	72.1	74.3	75.4
57.5°	5544.2	4663.9	2116.8	270.9	118.0	87.4	77.5	66.6	59.0	61.2	60.1
60°	5530.0	4612.6	1932.2	241.4	110.3	80.8	68.8	56.8	49.2	47.0	47.0
62.5°	5503.8	4554.7	1701.7	209.7	102.7	75.4	56.8	45.9	41.5	39.3	40.4
65°	5404.4	4366.8	1410.1	174.8	95.0	73.2	48.1	40.4	36.0	33.9	33.9
67.5°	5164.1	4028.2	1066.0	147.5	88.5	59.0	41.5	35.0	30.6	28.4	28.4
69°	4926.0	3704.9	818.1	134.3	84.1	53.5	38.2	31.7	28.4	25.1	25.1
70°	4720.7	3454.8	641.1	125.6	80.8	51.3	37.1	30.6	27.3	24.0	24.0
72.5°	4019.5	2740.4	325.5	109.2	67.7	44.8	32.8	27.3	22.9	19.7	19.7
75°	3118.4	1888.5	215.2	86.3	52.4	40.4	29.5	24.0	19.7	16.4	15.3
77.5°	1876.5	738.4	154.0	55.7	33.9	31.7	24.0	19.7	16.4	13.1	13.1
80°	517.7	316.8	103.8	37.1	19.7	20.8	17.5	14.2	12.0	9.8	9.8
82.5°	311.3	205.3	68.8	24.0	13.1	13.1	9.8	9.8	7.6	7.6	7.6
85°	53.5	41.5	16.4	9.8	7.6	7.6	5.5	3.3	3.3	3.3	3.3
87.5°	3.3	3.3	3.3	4.4	4.4	3.3	2.2	1.1	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)