

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: P233913

Luminaire Tested: **VERD-G-C028-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T2-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 885mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10800 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

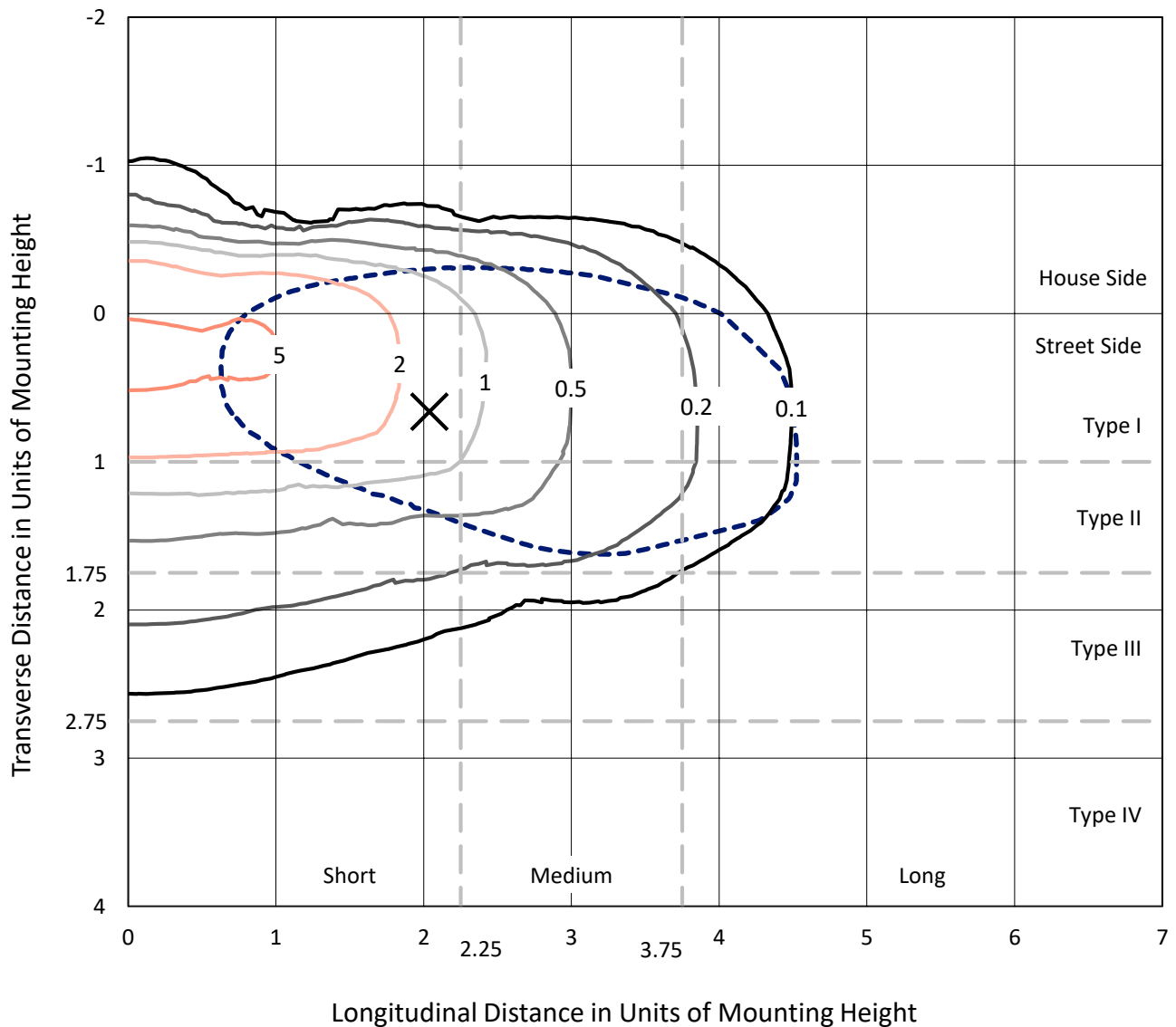
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

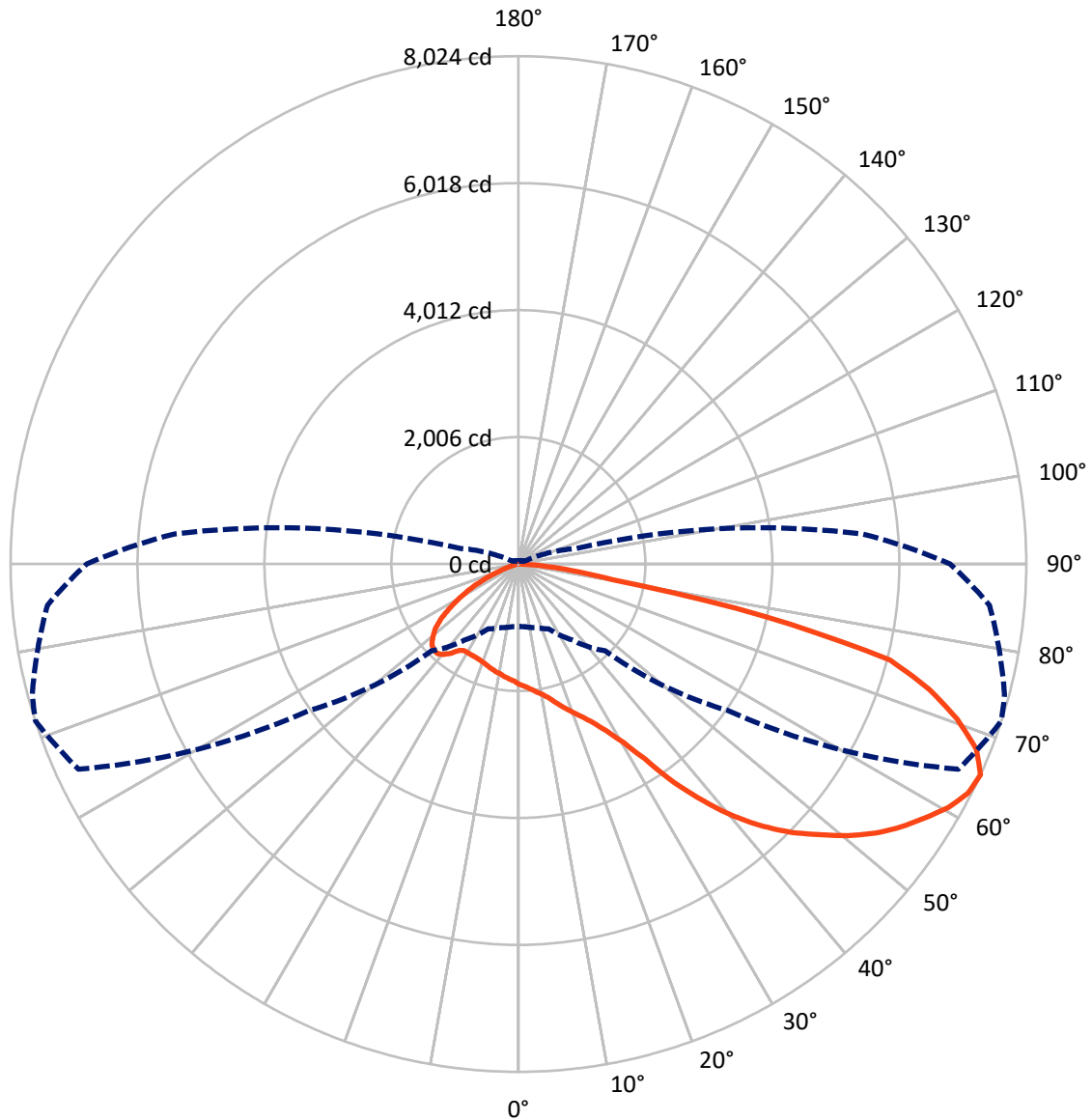
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2244.3	0.0	2244.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	8555.7	0.0	8555.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	10800.0	0.0	10800.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	1.7
10°-20°	553.8	5.1
20°-30°	925.4	8.6
30°-40°	1368.8	12.7
40°-50°	1892.4	17.5
50°-60°	2214.4	20.5
60°-70°	2201.1	20.4
70°-80°	1318.3	12.2
80°-90°	143.5	1.3
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°	10800.0	100.0
0°-180°	10800.0	100.0



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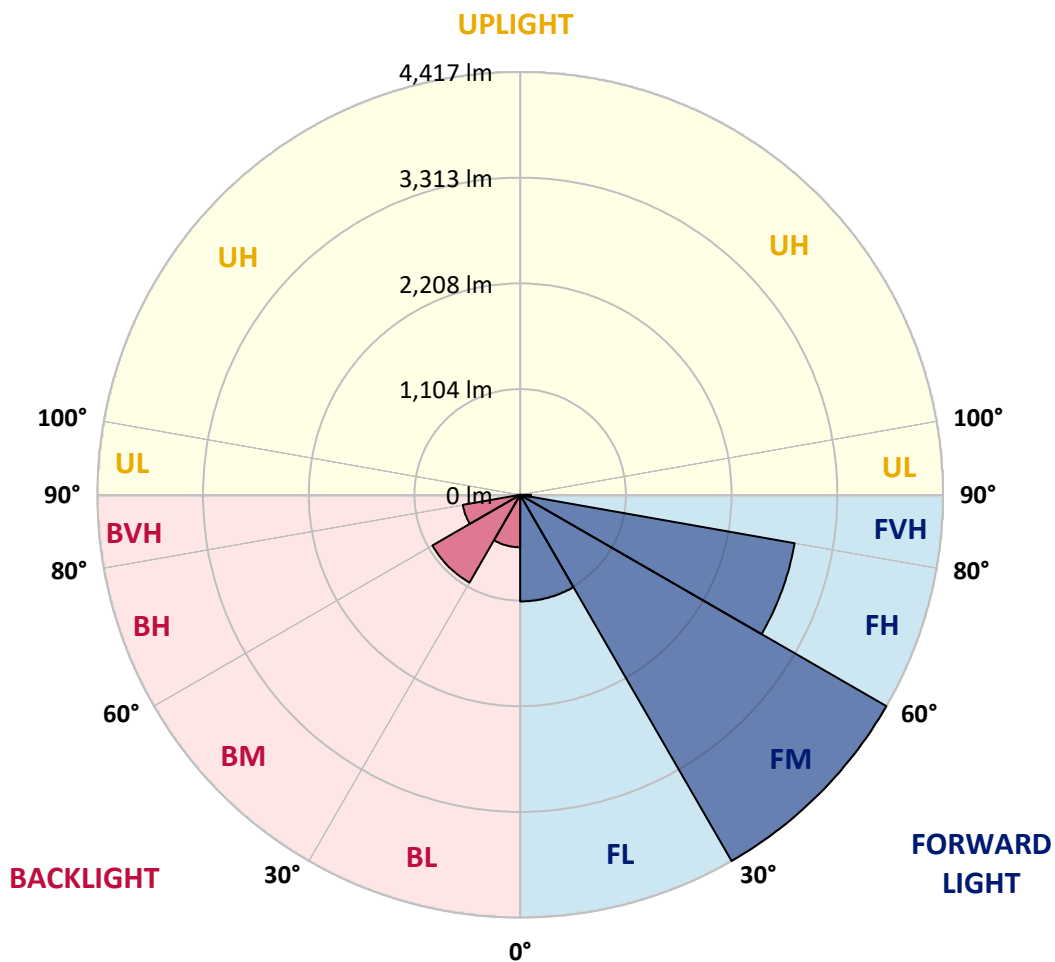
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.7	10.3			
FM (30°-60°)	4416.9	40.9			
FH (60°-80°)	2911.7	27.0			G2/5000
FVH (80°-90°)	113.4	1.1			G2/225
BL (0°-30°)	547.9	5.1	B2/1000		
BM (30°-60°)	1058.7	9.8	B2/2500		
BH (60°-80°)	607.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	30.1	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	2063.8	2065.5	2066.4	2033.8	2016.2	1995.9	1976.5	1955.4	1933.4	1925.4	1896.3
5°	2190.7	2192.4	2187.1	2157.2	2124.6	2094.6	2057.6	2019.7	1982.7	1972.1	1922.8
7.5°	2313.2	2312.3	2307.9	2270.0	2229.4	2189.8	2137.8	2086.7	2038.2	2021.5	1948.3
10°	2414.5	2416.3	2418.9	2378.4	2338.7	2291.1	2227.7	2151.9	2096.4	2069.9	1974.8
12.5°	2525.5	2520.2	2527.3	2487.6	2433.0	2389.8	2332.5	2243.5	2177.5	2144.0	2025.9
15°	2652.4	2652.4	2642.7	2610.1	2554.6	2501.7	2444.5	2362.5	2283.2	2232.1	2094.6
17.5°	2739.7	2734.4	2731.7	2703.5	2655.9	2610.1	2566.1	2482.3	2396.0	2333.4	2158.9
20°	2776.7	2778.4	2790.8	2770.5	2744.9	2717.6	2669.2	2604.0	2508.8	2441.8	2227.7
22.5°	2848.0	2849.8	2864.8	2850.7	2843.6	2836.6	2791.7	2734.4	2633.0	2568.7	2314.0
25°	2852.5	2854.2	2894.8	2917.7	2953.8	2970.5	2939.7	2890.3	2787.2	2724.7	2442.7
27.5°	2865.7	2871.0	2912.4	2975.8	3071.0	3104.5	3086.9	3085.1	2997.9	2931.8	2610.1
30°	2854.2	2859.5	2919.4	3007.5	3139.7	3238.4	3258.7	3310.7	3275.4	3226.1	2842.8
32.5°	2773.1	2792.5	2863.9	3004.0	3198.8	3377.7	3442.9	3620.9	3673.7	3679.0	3309.8
35°	2626.0	2636.6	2766.1	2963.5	3238.4	3508.9	3688.7	4017.4	4241.2	4231.5	3827.1
37.5°	2514.1	2517.6	2650.7	2894.8	3260.5	3649.9	3968.9	4495.0	4752.3	4763.8	4294.1
40°	2370.4	2396.0	2523.8	2811.9	3248.1	3768.9	4247.4	4940.0	5239.6	5227.3	4703.9
42.5°	2236.5	2251.5	2378.4	2682.4	3203.2	3859.7	4520.6	5370.9	5665.3	5624.7	5096.9
45°	2097.3	2122.8	2239.1	2515.0	3114.2	3910.8	4768.2	5779.8	6049.5	5999.2	5443.2
47.5°	1958.0	1976.5	2099.9	2361.6	2946.7	3909.0	5011.4	6163.1	6390.5	6355.2	5771.0
50°	1490.1	1530.6	1854.9	2201.2	2711.5	3835.0	5207.9	6527.1	6748.3	6693.6	6090.9
52.5°	1365.9	1379.1	1469.8	2015.3	2460.3	3658.8	5361.2	6869.0	7063.7	7001.2	6392.2
55°	1291.0	1306.8	1343.8	1638.2	2254.1	3368.8	5424.7	7188.0	7333.4	7269.9	6661.0
57.5°	1191.4	1207.2	1280.4	1410.8	2039.1	2927.4	5331.3	7470.8	7572.2	7502.6	6910.4
60°	1122.7	1129.7	1200.2	1302.4	1803.8	2481.5	5019.3	7700.8	7806.6	7723.7	7157.1
62.5°	1059.2	1067.1	1117.4	1218.7	1609.1	2154.5	4533.8	7757.2	7973.1	7908.8	7382.7
65°	986.1	993.1	1038.9	1128.8	1458.4	1941.3	4033.3	7670.9	8024.2	7951.1	7470.0
67.5°	889.1	898.8	935.0	1016.0	1261.0	1699.8	3288.6	7511.4	7800.4	7724.6	7291.1
70°	769.3	773.7	816.9	890.0	1065.4	1475.1	2579.3	6943.9	7357.2	7273.4	6787.0
72.5°	621.2	629.2	675.9	752.5	875.0	1215.2	1842.6	6000.1	6795.8	6764.1	6053.0
75°	415.0	445.9	556.9	634.5	723.5	949.1	1237.2	4211.3	6067.1	6091.8	5170.9
77.5°	79.3	82.0	233.5	347.2	423.0	579.8	765.8	2069.1	3998.9	4431.6	3899.3
80°	52.0	56.4	99.6	243.2	280.2	287.3	393.0	906.8	1506.9	1906.0	2248.8
82.5°	27.3	32.6	59.9	141.0	128.7	71.4	128.7	467.9	835.4	959.6	1134.1
85°	11.5	13.2	29.1	48.5	36.1	30.0	30.0	186.8	370.1	428.3	445.0
87.5°	1.8	1.8	6.2	8.8	5.3	3.5	2.6	0.9	0.9	0.9	0.9
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°	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1896.3	1880.5	1858.5	1832.9	1814.4	1804.7	1796.8	1775.6	1768.6	1782.7	1779.1
5°	1904.3	1885.8	1835.5	1794.1	1752.7	1727.2	1699.0	1661.9	1646.1	1654.9	1652.3
7.5°	1909.6	1886.7	1811.8	1747.4	1677.8	1629.3	1592.3	1543.9	1520.1	1528.9	1518.3
10°	1917.5	1883.1	1783.6	1698.1	1607.3	1536.8	1482.2	1425.8	1401.1	1408.2	1399.3
12.5°	1951.0	1895.5	1770.3	1655.8	1544.7	1456.6	1387.9	1328.0	1292.7	1299.8	1292.7
15°	2005.6	1920.1	1750.9	1602.0	1478.7	1378.2	1298.9	1230.2	1189.6	1199.3	1190.5
17.5°	2062.9	1950.1	1733.3	1542.1	1408.2	1296.2	1213.4	1155.3	1090.0	1096.2	1083.0
20°	2112.2	1978.3	1723.6	1485.7	1342.1	1209.0	1109.4	1069.8	979.9	957.0	942.0
22.5°	2181.0	2019.7	1715.7	1439.9	1260.1	1121.8	1003.7	929.7	832.7	784.3	779.9
25°	2278.8	2081.4	1714.8	1403.8	1186.1	1030.1	865.3	741.1	655.6	598.3	590.4
27.5°	2403.0	2163.4	1724.5	1367.6	1112.1	914.7	695.3	557.8	481.1	437.1	429.1
30°	2581.9	2270.9	1736.9	1326.2	1029.2	764.9	518.1	410.6	347.2	315.5	309.3
32.5°	2965.2	2546.7	1755.4	1283.0	929.7	576.3	376.3	297.8	249.4	230.0	239.7
35°	3427.0	2921.2	1838.2	1227.5	799.3	410.6	271.4	212.4	178.9	183.3	188.6
37.5°	3830.6	3279.0	2024.1	1156.1	624.8	301.4	186.8	158.6	158.6	172.7	185.1
40°	4211.3	3601.5	2190.7	1059.2	438.0	208.0	144.5	147.2	144.5	153.3	150.7
42.5°	4570.8	3907.3	2321.1	943.8	286.4	143.6	131.3	136.6	132.2	133.9	126.0
45°	4910.9	4223.6	2393.3	773.7	190.3	125.1	120.7	129.5	128.7	126.9	119.0
47.5°	5225.5	4502.1	2429.5	557.8	131.3	112.8	113.7	119.8	122.5	120.7	116.3
50°	5534.0	4779.6	2396.9	334.0	118.1	103.1	109.3	109.3	114.6	104.9	101.3
52.5°	5829.2	5058.1	2293.8	202.7	108.4	96.1	101.3	99.6	102.2	92.5	90.8
55°	6106.7	5265.2	2090.2	159.5	102.2	91.6	92.5	94.3	89.9	79.3	82.8
57.5°	6400.2	5441.4	1806.5	144.5	99.6	85.5	87.2	86.4	79.3	69.6	69.6
60°	6641.6	5569.2	1521.8	131.3	97.8	83.7	77.5	75.8	65.2	59.9	59.0
62.5°	6808.2	5605.3	1244.3	117.2	92.5	77.5	69.6	64.3	54.6	49.3	47.6
65°	6821.4	5451.1	947.3	105.7	87.2	72.3	64.3	52.9	43.2	38.8	37.0
67.5°	6550.9	5022.9	668.0	96.9	78.4	67.0	56.4	42.3	34.4	30.8	30.0
70°	5985.1	4490.6	408.9	84.6	71.4	62.6	58.2	34.4	28.2	23.8	23.8
72.5°	5252.0	3889.6	239.7	72.3	59.9	50.2	38.8	29.1	23.8	18.5	18.5
75°	4501.2	3087.7	147.2	54.6	44.1	39.7	30.0	24.7	19.4	14.1	14.1
77.5°	3241.1	2279.7	114.6	35.2	27.3	28.2	22.0	19.4	15.9	11.5	11.5
80°	1988.9	1387.9	82.0	23.8	15.9	15.9	15.9	15.0	11.5	9.7	8.8
82.5°	1008.1	634.5	40.5	14.1	9.7	9.7	9.7	10.6	8.8	7.0	7.0
85°	354.2	178.0	12.3	7.0	6.2	6.2	5.3	5.3	4.4	3.5	3.5
87.5°	0.9	1.8	1.8	2.6	3.5	3.5	2.6	1.8	0.9	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)