

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: P509357

Luminaire Tested: **VERD-CA2-80-730-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-730-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1100mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11341 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

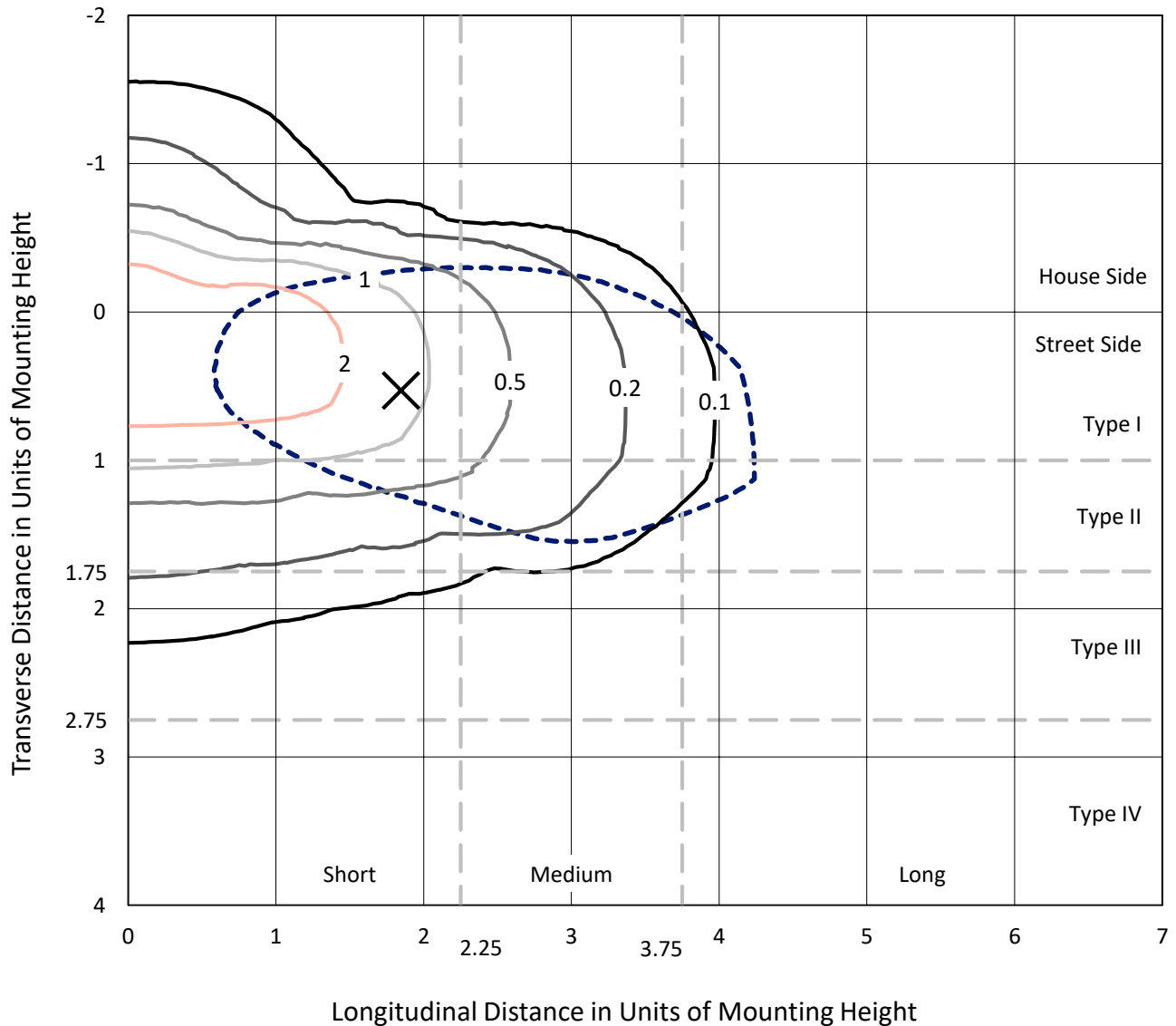
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

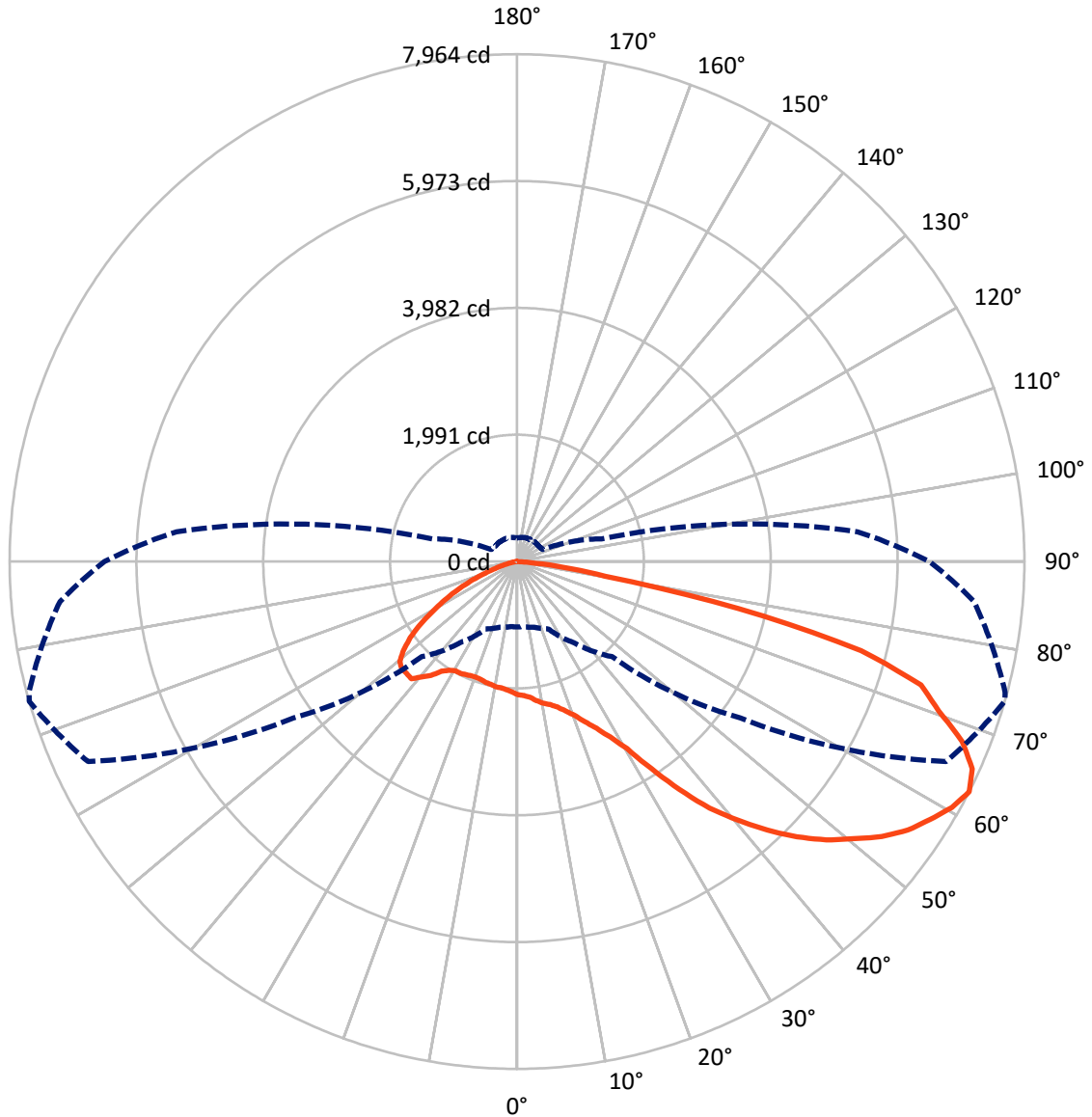
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2928.3	0.0	2928.3
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	8412.7	0.0	8412.7
	% Fixture	74.2	0.0	74.2
Total	Lumens	11341.0	0.0	11341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.0	1.8
10°-20°	612.7	5.4
20°-30°	1033.1	9.1
30°-40°	1509.4	13.3
40°-50°	2009.7	17.7
50°-60°	2312.9	20.4
60°-70°	2235.0	19.7
70°-80°	1286.6	11.3
80°-90°	140.8	1.2
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°	11341.0	100.0
0°-180°	11341.0	100.0

Coefficient of Utilization



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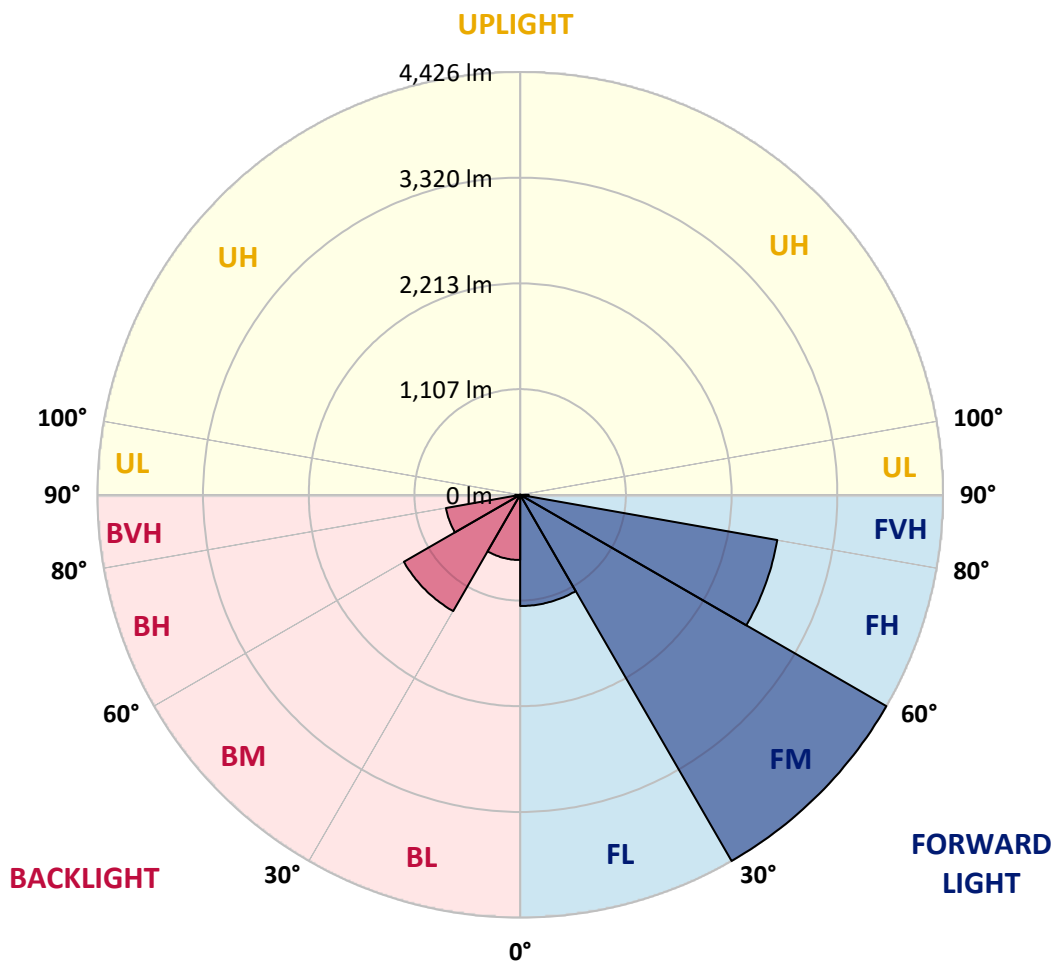
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.0	10.3			
FM (30°-60°)	4426.4	39.0			
FH (60°-80°)	2733.3	24.1			G2/5000
FVH (80°-90°)	89.0	0.8			G1/100
BL (0°-30°)	682.7	6.0	B2/1000		
BM (30°-60°)	1405.6	12.4	B2/2500		
BH (60°-80°)	788.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	51.7	0.5			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°	74°	75°	85°
0°	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2
2.5°	2238.4	2222.3	2212.4	2201.3	2187.7	2182.7	2153.1	2127.1	2106.1	2107.3	2093.7
5°	2320.0	2302.7	2280.4	2276.7	2259.4	2255.7	2227.3	2186.4	2140.7	2134.5	2093.7
7.5°	2411.5	2401.6	2388.0	2370.7	2342.3	2323.7	2282.9	2250.8	2203.8	2197.6	2117.2
10°	2522.8	2515.4	2505.5	2505.5	2468.4	2428.8	2379.4	2299.0	2261.9	2255.7	2158.0
12.5°	2653.9	2631.6	2599.5	2580.9	2546.3	2521.6	2468.4	2383.1	2302.7	2300.2	2196.3
15°	2739.2	2720.7	2699.7	2692.2	2647.7	2606.9	2550.0	2482.0	2369.5	2360.8	2243.3
17.5°	2834.5	2817.2	2792.4	2778.8	2750.4	2703.4	2652.7	2563.6	2463.5	2454.8	2296.5
20°	2887.6	2869.1	2861.7	2864.1	2854.3	2830.8	2770.2	2689.8	2574.8	2563.6	2369.5
22.5°	2947.0	2934.6	2937.1	2955.7	2974.2	2965.6	2918.6	2829.5	2730.6	2713.3	2487.0
25°	2948.2	2938.3	2971.7	3043.5	3083.0	3102.8	3078.1	3005.1	2900.0	2883.9	2636.6
27.5°	2969.3	2954.4	2990.3	3065.7	3185.7	3226.5	3235.1	3207.9	3117.7	3097.9	2815.9
30°	2914.8	2905.0	2959.4	3090.5	3231.4	3367.5	3416.9	3459.0	3408.3	3409.5	3092.9
32.5°	2820.9	2803.5	2886.4	3047.2	3309.3	3494.8	3625.9	3795.4	3873.3	3865.9	3575.2
35°	2641.5	2651.4	2762.7	3008.8	3311.8	3624.7	3881.9	4184.9	4396.4	4391.4	4074.9
37.5°	2514.2	2509.2	2640.3	2901.2	3310.6	3739.7	4130.5	4635.1	4908.4	4901.0	4504.0
40°	2360.8	2362.1	2493.1	2767.7	3252.5	3811.4	4387.7	5061.7	5340.0	5328.8	4914.6
42.5°	2196.3	2201.3	2323.7	2604.4	3172.1	3865.9	4617.8	5493.3	5762.9	5772.8	5243.5
45°	2049.2	2051.6	2172.8	2430.1	3029.9	3872.0	4824.3	5901.4	6163.6	6140.1	5588.5
47.5°	1832.8	1835.2	2014.5	2264.4	2841.9	3821.3	4994.9	6289.7	6529.7	6480.2	5880.4
50°	1435.8	1440.7	1653.4	2092.5	2613.1	3705.1	5129.7	6654.6	6840.1	6819.0	6179.7
52.5°	1325.7	1322.0	1411.0	1887.2	2407.8	3494.8	5215.1	6982.3	7170.3	7167.8	6427.0
55°	1270.1	1266.4	1296.0	1529.8	2206.2	3183.2	5212.6	7237.0	7443.6	7392.9	6653.3
57.5°	1171.1	1163.7	1240.4	1355.4	1981.2	2794.9	5088.9	7465.8	7641.4	7626.6	6857.4
60°	1100.6	1094.5	1146.4	1252.8	1741.2	2400.4	4771.1	7584.5	7840.5	7846.7	7029.3
62.5°	1027.7	1024.0	1068.5	1167.4	1553.3	2112.2	4281.4	7428.7	7964.2	7930.8	7201.2
65°	944.8	942.3	984.4	1064.8	1366.5	1893.4	3801.5	7150.5	7852.9	7891.2	7223.4
67.5°	845.9	844.7	885.5	941.1	1162.5	1673.2	3067.0	6822.7	7535.1	7493.0	6937.8
70°	724.7	719.7	770.4	822.4	973.3	1423.4	2386.8	6240.3	7018.1	7170.3	6368.9
72.5°	609.7	607.2	655.4	693.8	806.3	1162.5	1741.2	5396.9	6631.1	6412.2	5738.2
75°	477.4	465.0	515.7	551.6	635.7	925.0	1187.2	3604.9	5581.1	5535.4	4820.6
77.5°	192.9	223.8	267.1	299.3	354.9	524.4	620.8	1710.3	3560.4	3717.5	3352.6
80°	74.2	79.1	190.4	215.2	238.7	301.7	238.7	721.0	1404.9	1532.2	1941.6
82.5°	42.0	47.0	94.0	90.3	89.0	76.7	89.0	353.7	733.3	803.8	937.4
85°	23.5	26.0	38.3	42.0	35.9	30.9	27.2	92.8	183.0	173.1	194.2
87.5°	3.7	4.9	6.2	6.2	3.7	3.7	3.7	4.9	4.9	4.9	6.2
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°	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2
2.5°	2080.1	2066.5	2052.9	2036.8	2017.0	2004.7	1999.7	2005.9	2023.2	2002.2	1984.9
5°	2072.7	2054.1	2023.2	1992.3	1967.6	1946.5	1918.1	1915.6	1920.6	1911.9	1889.6
7.5°	2088.7	2061.5	1998.5	1977.4	1925.5	1876.0	1860.0	1853.8	1838.9	1821.6	1800.6
10°	2120.9	2065.3	2000.9	1939.1	1890.9	1837.7	1775.9	1777.1	1770.9	1751.1	1731.3
12.5°	2137.0	2071.4	1977.4	1911.9	1837.7	1772.2	1711.6	1684.4	1695.5	1679.4	1658.4
15°	2166.7	2097.4	1968.8	1872.3	1770.9	1696.7	1651.0	1611.4	1586.7	1590.4	1578.0
17.5°	2222.3	2120.9	1946.5	1829.0	1719.0	1631.2	1543.4	1539.7	1502.6	1481.5	1463.0
20°	2280.4	2162.9	1944.1	1782.1	1634.9	1526.1	1455.6	1416.0	1393.7	1376.4	1362.8
22.5°	2355.9	2221.1	1952.7	1754.8	1559.4	1437.0	1346.7	1293.6	1257.7	1245.3	1235.4
25°	2462.2	2294.0	1976.2	1706.6	1480.3	1339.3	1216.9	1161.2	1120.4	1110.5	1103.1
27.5°	2608.2	2386.8	1999.7	1654.7	1387.6	1202.1	1072.2	1017.8	972.0	970.8	957.2
30°	2838.2	2529.0	2008.4	1608.9	1288.6	1054.9	925.0	874.3	839.7	826.1	836.0
32.5°	3267.3	2843.1	2062.8	1538.4	1163.7	911.4	801.4	760.6	722.2	707.4	717.3
35°	3731.1	3219.1	2154.3	1490.2	1026.4	775.4	700.0	651.7	604.7	597.3	593.6
37.5°	4071.1	3561.6	2327.4	1411.0	896.6	692.5	593.6	554.0	526.8	512.0	525.6
40°	4457.0	3846.1	2458.5	1327.0	764.3	604.7	494.7	482.3	469.9	460.0	474.9
42.5°	4762.4	4139.2	2614.3	1215.7	657.9	513.2	440.3	450.2	456.3	451.4	452.6
45°	5043.2	4356.8	2624.2	1046.2	561.5	445.2	424.2	444.0	458.8	456.3	455.1
47.5°	5317.7	4616.5	2647.7	866.9	492.2	427.9	425.4	440.3	460.0	463.8	463.8
50°	5600.9	4814.4	2611.9	697.5	466.2	430.4	429.1	427.9	452.6	453.9	457.6
52.5°	5813.6	4975.2	2442.4	576.3	465.0	437.8	435.3	422.9	434.1	442.7	436.5
55°	6038.7	5175.5	2228.5	530.5	462.5	440.3	450.2	429.1	421.7	414.3	421.7
57.5°	6252.6	5315.2	1947.8	503.3	452.6	436.5	456.3	427.9	411.8	390.8	383.4
60°	6417.1	5347.4	1634.9	474.9	440.3	427.9	429.1	419.2	398.2	372.2	361.1
62.5°	6472.8	5365.9	1375.2	447.7	415.5	414.3	404.4	400.7	392.0	375.9	371.0
65°	6425.8	5155.7	1098.2	414.3	394.5	395.7	380.9	368.5	348.7	322.8	320.3
67.5°	6103.0	4785.9	842.2	372.2	362.3	374.7	358.6	337.6	315.4	298.0	300.5
70°	5550.2	4348.2	591.1	314.1	325.2	347.5	341.3	314.1	289.4	274.5	277.0
72.5°	4935.6	3684.1	401.9	244.9	264.6	311.6	311.6	293.1	268.4	248.6	243.6
75°	3893.1	2893.8	259.7	162.0	174.4	254.8	275.8	247.3	220.1	207.8	202.8
77.5°	2642.8	1884.7	165.7	92.8	116.2	167.0	217.7	221.4	260.9	262.2	251.0
80°	1553.3	1078.4	101.4	54.4	58.1	96.5	174.4	218.9	277.0	195.4	179.3
82.5°	772.9	460.0	45.8	33.4	34.6	48.2	94.0	251.0	213.9	122.4	117.5
85°	171.9	75.4	18.6	17.3	19.8	24.7	48.2	207.8	131.1	98.9	96.5
87.5°	6.2	4.9	4.9	4.9	3.7	3.7	9.9	68.0	51.9	43.3	40.8
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)