

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: P233487

Luminaire Tested: **VERD-C029-D-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C029-D-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1030mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10151 lumens
Efficiency: N/A
Efficacy: 125.3 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): 81
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

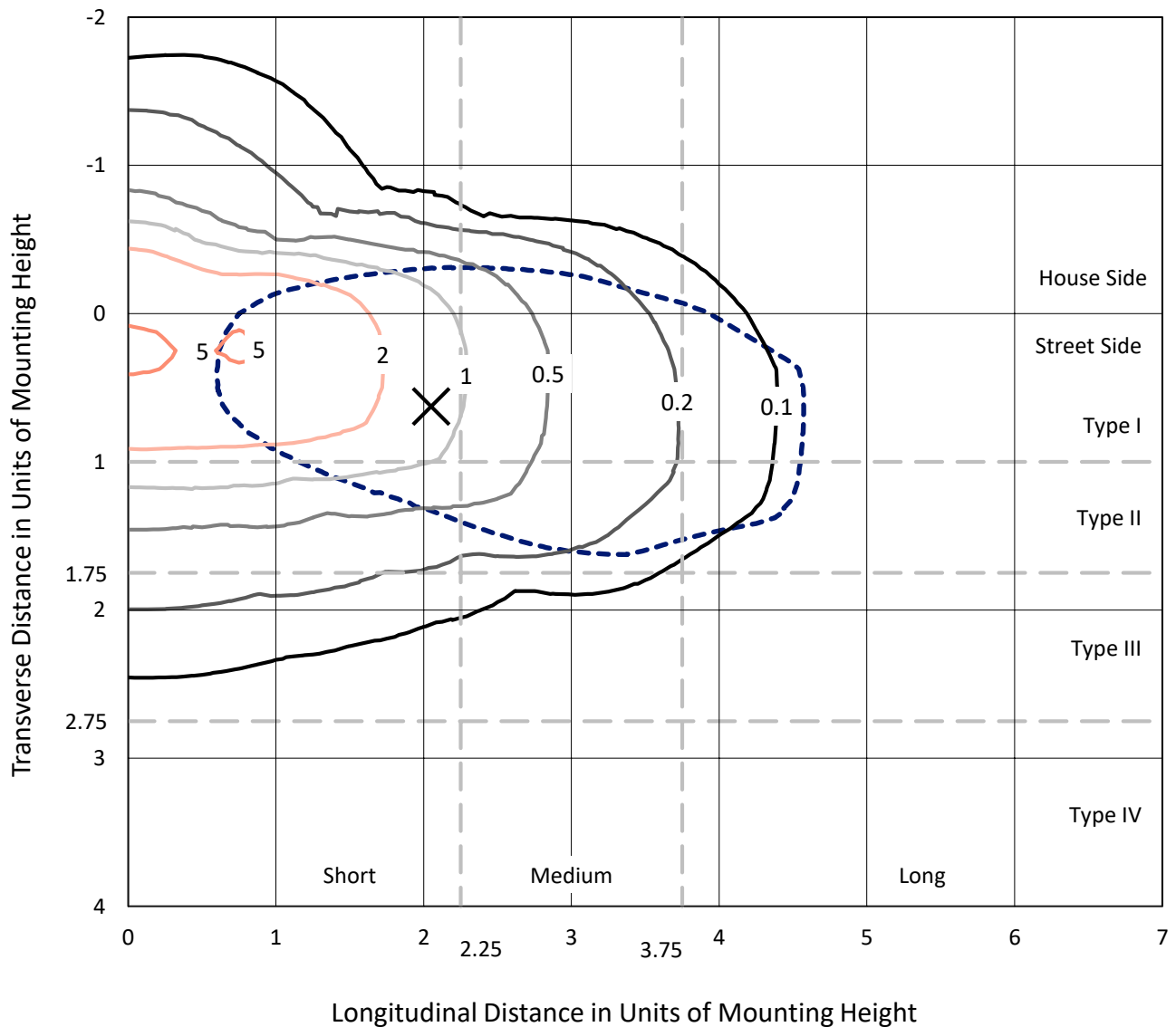


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

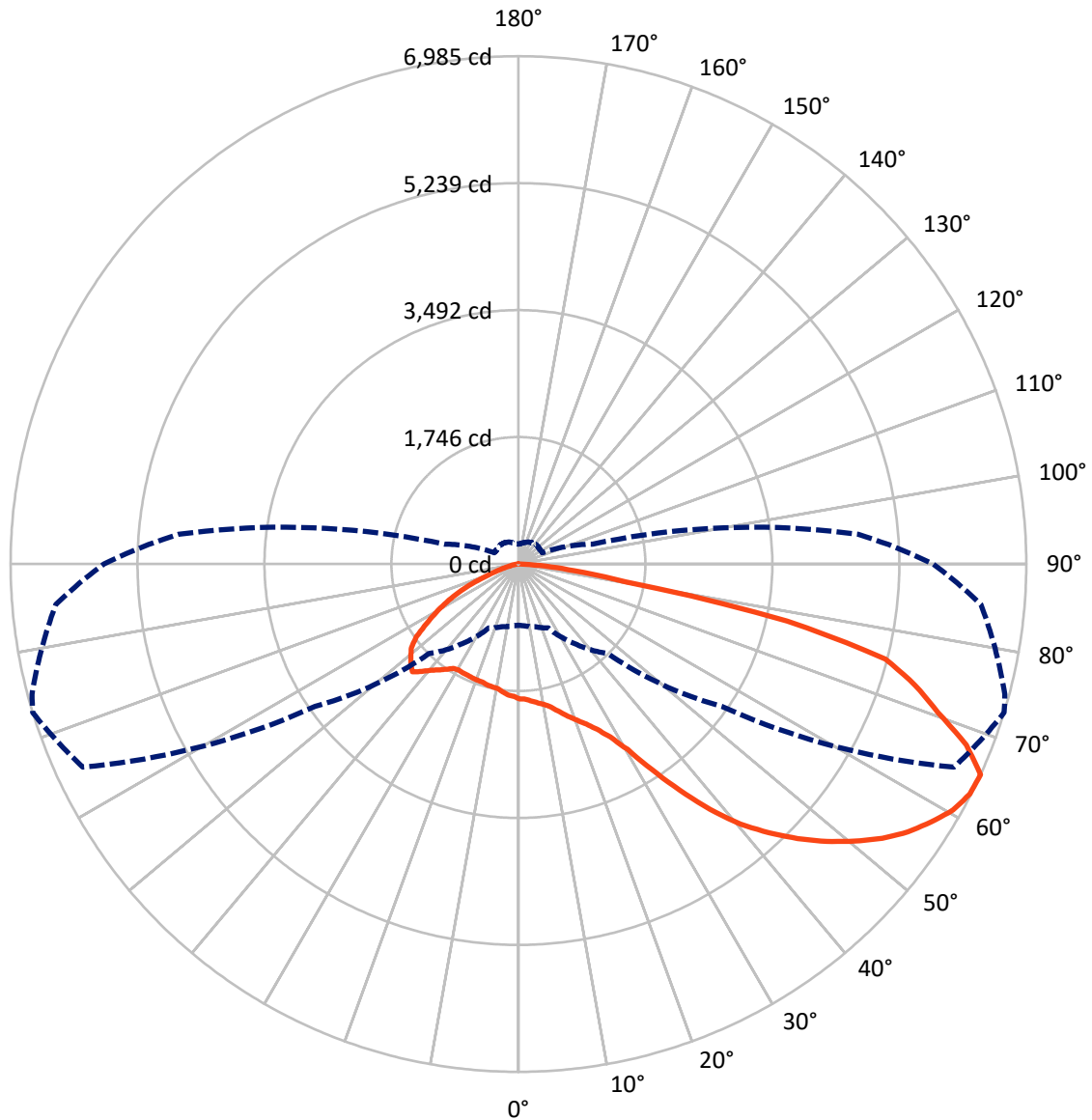


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2602.1	0.0	2602.1
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	7548.8	0.0	7548.8
	% Fixture	74.4	0.0	74.4
Total	Lumens	10151.0	0.0	10151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	1.7
10°-20°	535.6	5.3
20°-30°	898.3	8.8
30°-40°	1317.4	13.0
40°-50°	1780.5	17.5
50°-60°	2062.6	20.3
60°-70°	2014.8	19.8
70°-80°	1209.9	11.9
80°-90°	154.9	1.5
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°	10151.0	100.0
0°-180°	10151.0	100.0



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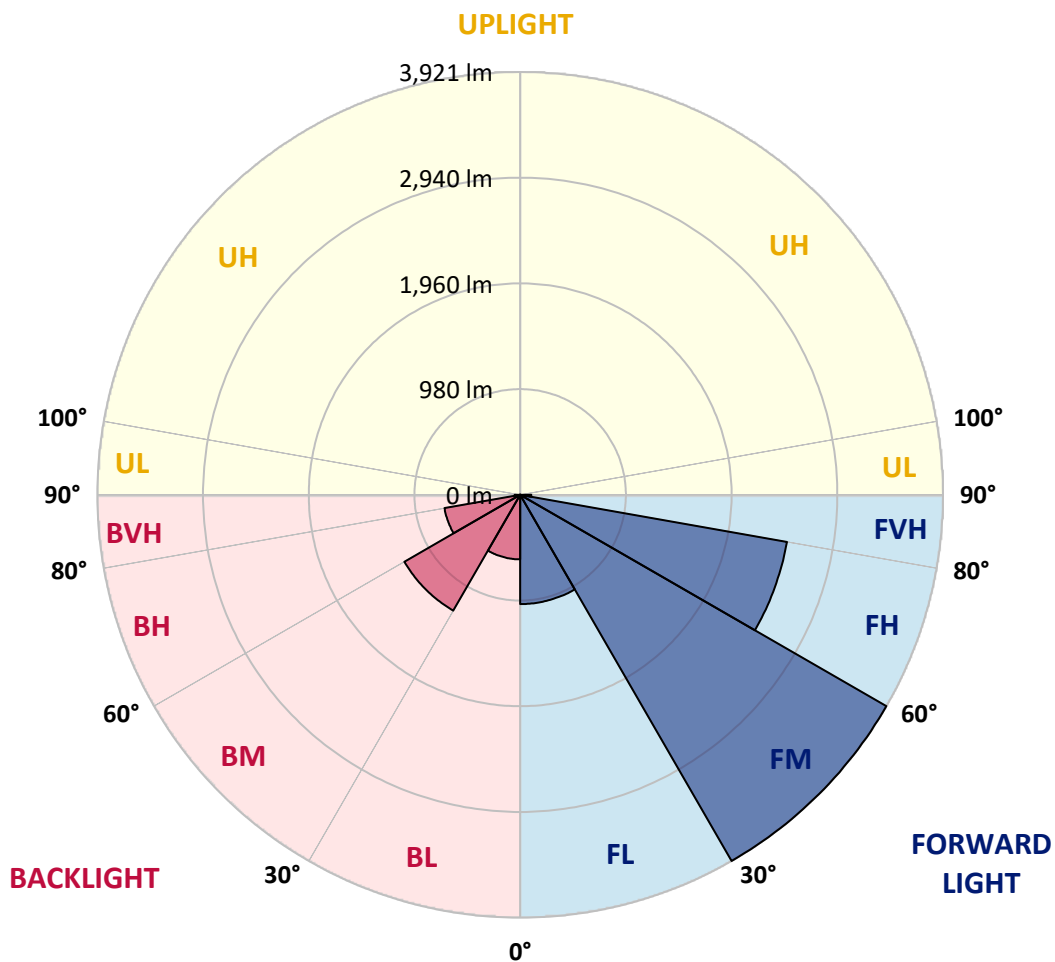
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.9	10.0			
FM (30°-60°)	3920.6	38.6			
FH (60°-80°)	2512.2	24.7			G2/5000
FVH (80°-90°)	103.2	1.0			G2/225
BL (0°-30°)	598.1	5.9	B2/1000		
BM (30°-60°)	1239.8	12.2	B2/2500		
BH (60°-80°)	712.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	51.8	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°	73°	75°	85°
0°	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1
2.5°	1970.4	1977.8	1969.5	1945.5	1933.5	1925.2	1900.3	1878.2	1860.7	1858.9	1842.3
5°	2046.0	2057.0	2043.2	2012.8	2000.8	1983.3	1955.6	1925.2	1893.9	1887.4	1854.3
7.5°	2141.8	2143.6	2136.3	2105.9	2081.0	2044.1	1996.2	1963.9	1928.0	1917.9	1865.3
10°	2222.9	2222.0	2212.8	2183.3	2158.4	2126.1	2058.9	2006.3	1963.9	1951.0	1878.2
12.5°	2300.3	2298.5	2289.3	2258.8	2227.5	2200.8	2150.1	2079.1	2022.0	2005.4	1915.1
15°	2396.2	2391.6	2376.8	2336.3	2311.4	2280.0	2243.2	2172.2	2106.8	2083.7	1968.5
17.5°	2469.9	2469.0	2457.9	2423.8	2394.3	2360.2	2326.1	2270.8	2199.9	2174.1	2021.1
20°	2512.3	2508.6	2505.8	2479.1	2471.7	2453.3	2404.5	2362.1	2291.1	2264.4	2080.1
22.5°	2557.4	2558.4	2559.3	2545.5	2566.7	2551.0	2515.0	2463.4	2391.6	2361.1	2163.0
25°	2567.6	2569.4	2587.9	2618.3	2644.1	2672.6	2646.8	2596.1	2518.7	2486.5	2276.4
27.5°	2539.0	2546.4	2601.7	2653.3	2744.5	2781.4	2776.8	2774.0	2694.8	2662.5	2432.1
30°	2564.8	2564.8	2602.6	2691.1	2806.3	2903.0	2924.2	2983.2	2959.3	2936.2	2693.8
32.5°	2487.4	2501.2	2568.5	2692.0	2874.5	3015.5	3111.3	3275.4	3370.3	3350.9	3064.3
35°	2341.8	2360.2	2458.8	2647.8	2908.6	3148.2	3319.6	3635.7	3819.1	3842.2	3510.4
37.5°	2229.4	2245.0	2368.5	2578.6	2921.5	3272.6	3560.1	4041.2	4278.1	4266.1	3888.2
40°	2092.0	2119.7	2244.1	2496.6	2891.1	3378.6	3821.0	4413.5	4704.8	4649.5	4247.7
42.5°	1968.5	1992.5	2096.6	2365.7	2848.7	3438.5	4056.9	4796.9	5052.2	5008.0	4587.7
45°	1837.7	1858.9	1955.6	2209.1	2750.1	3468.0	4278.1	5163.7	5385.8	5336.1	4902.9
47.5°	1687.5	1716.0	1831.2	2061.6	2605.4	3449.6	4439.3	5482.6	5702.9	5666.0	5163.7
50°	1308.7	1338.2	1639.5	1923.4	2404.5	3373.1	4584.0	5801.5	5989.5	5954.5	5394.1
52.5°	1187.9	1200.8	1294.8	1764.9	2195.3	3221.9	4674.4	6064.1	6268.7	6233.7	5611.6
55°	1114.2	1123.4	1176.0	1441.4	2017.4	2978.6	4685.4	6336.9	6503.7	6457.7	5842.9
57.5°	1038.6	1048.8	1106.8	1243.2	1838.6	2598.0	4568.4	6568.2	6694.5	6644.7	6064.1
60°	975.1	980.6	1037.7	1131.7	1636.8	2220.1	4267.0	6725.8	6870.5	6806.0	6280.7
62.5°	917.0	924.4	965.8	1051.5	1467.2	1937.2	3846.8	6726.8	6967.3	6927.7	6390.4
65°	841.4	852.5	893.0	970.4	1329.9	1743.7	3411.8	6609.7	6984.8	6925.8	6384.8
67.5°	753.9	767.7	804.6	866.3	1147.4	1537.2	2805.4	6455.8	6642.9	6632.8	6121.3
70°	666.3	666.3	707.8	757.6	952.0	1316.0	2216.4	5907.5	6121.3	6136.9	5648.5
72.5°	562.2	564.0	596.3	639.6	766.8	1080.1	1614.6	5050.4	5706.6	5516.7	5094.6
75°	471.9	470.0	503.2	539.1	623.9	850.6	1053.4	3710.4	5215.3	5257.7	4483.6
77.5°	250.7	241.5	283.9	312.4	365.9	472.8	584.3	1860.7	3776.7	3859.7	3589.6
80°	71.0	71.9	188.0	210.1	240.5	234.1	271.0	709.6	1493.9	1683.8	2093.0
82.5°	42.4	48.8	106.9	125.3	94.0	60.8	103.2	394.4	773.2	866.3	1038.6
85°	22.1	24.0	37.8	47.0	35.9	30.4	31.3	165.9	376.0	382.5	414.7
87.5°	10.1	10.1	13.8	14.7	9.2	5.5	3.7	2.8	2.8	1.8	1.8
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°	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1	1856.1
2.5°	1829.4	1838.6	1822.9	1810.9	1801.7	1796.2	1789.7	1774.1	1778.7	1785.1	1784.2
5°	1838.6	1843.2	1815.6	1777.8	1742.7	1717.9	1701.3	1676.4	1676.4	1686.5	1686.5
7.5°	1846.9	1840.4	1784.2	1720.6	1681.0	1660.7	1634.0	1607.3	1602.7	1610.0	1611.0
10°	1851.5	1823.8	1745.5	1686.5	1634.9	1593.4	1559.3	1528.9	1528.0	1538.2	1540.0
12.5°	1871.8	1818.3	1742.7	1661.6	1584.2	1540.0	1499.4	1465.3	1453.4	1454.3	1456.1
15°	1903.1	1840.4	1739.1	1627.5	1543.7	1484.7	1425.7	1382.4	1371.3	1386.1	1391.6
17.5°	1940.9	1876.4	1721.5	1596.2	1493.9	1423.0	1364.0	1325.3	1290.2	1274.6	1271.8
20°	1990.7	1906.8	1730.8	1550.1	1446.0	1351.1	1277.3	1230.3	1200.8	1199.0	1197.2
22.5°	2056.1	1940.9	1732.6	1519.7	1370.4	1271.8	1180.6	1153.8	1101.3	1082.0	1090.3
25°	2142.7	1992.5	1728.0	1487.5	1312.4	1179.6	1070.0	1021.1	1001.8	979.7	981.5
27.5°	2254.2	2074.5	1740.0	1445.1	1217.4	1067.2	944.6	892.1	862.6	844.2	847.0
30°	2480.9	2198.9	1739.1	1404.5	1129.9	951.1	812.9	777.8	748.3	731.8	740.0
32.5°	2803.5	2469.0	1777.8	1350.1	1030.3	795.3	702.3	662.6	637.7	619.3	623.9
35°	3202.6	2763.0	1877.3	1276.4	917.0	676.5	612.9	564.0	533.6	526.2	523.5
37.5°	3573.0	3022.8	1971.3	1227.6	787.0	611.0	530.8	482.0	455.3	464.5	464.5
40°	3903.9	3367.5	2077.3	1149.2	669.1	536.4	439.6	417.5	403.7	419.3	424.9
42.5°	4153.7	3698.4	2221.1	1046.0	573.2	447.9	376.0	391.7	397.2	408.3	405.5
45°	4463.3	3887.3	2363.0	950.2	489.4	373.2	363.1	395.4	408.3	418.4	413.8
47.5°	4748.1	4033.8	2334.4	773.2	412.0	361.3	369.6	395.4	417.5	434.1	431.3
50°	4993.2	4217.2	2280.0	600.9	395.4	372.3	376.0	385.2	418.4	429.5	429.5
52.5°	5146.2	4398.8	2212.8	485.7	407.3	386.2	379.7	378.8	400.9	409.2	401.8
55°	5330.5	4586.8	2038.6	450.7	412.0	395.4	389.8	381.5	388.0	381.5	385.2
57.5°	5535.1	4772.0	1771.3	440.5	409.2	392.6	422.1	377.9	374.2	351.1	345.6
60°	5714.8	4844.9	1537.2	417.5	394.4	385.2	392.6	373.2	354.8	324.4	312.4
62.5°	5782.1	4838.4	1299.5	393.5	372.3	374.2	373.2	359.4	342.8	312.4	305.0
65°	5701.0	4690.9	1053.4	365.0	354.8	362.2	353.0	332.7	305.0	280.2	273.7
67.5°	5426.4	4314.9	782.4	327.2	326.2	340.1	333.6	306.0	275.6	256.2	256.2
70°	4901.1	3852.3	506.9	271.9	292.1	316.1	316.1	286.6	247.0	230.4	235.0
72.5°	4326.0	3315.0	328.1	201.8	230.4	286.6	284.8	264.5	227.6	206.4	207.4
75°	3747.2	2630.2	212.0	139.2	149.3	244.2	252.5	215.7	176.9	151.1	146.5
77.5°	2848.7	1978.7	134.6	81.1	94.9	149.3	191.7	179.7	180.6	220.3	218.4
80°	1752.0	1192.6	97.7	39.6	47.0	97.7	154.8	171.4	240.5	158.5	145.6
82.5°	877.4	557.6	51.6	24.0	26.7	43.3	92.2	205.5	175.1	105.1	99.5
85°	328.1	150.2	15.7	12.0	14.7	22.1	37.8	188.0	111.5	83.9	82.0
87.5°	1.8	2.8	2.8	3.7	5.5	6.5	13.8	89.4	56.2	40.6	38.7
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)