

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: P233698

Luminaire Tested: **VERD-C02H8-D-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233698
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-C02H8-D-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 960mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12649 lumens
Efficiency: N/A
Efficacy: 115.0 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): 110
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

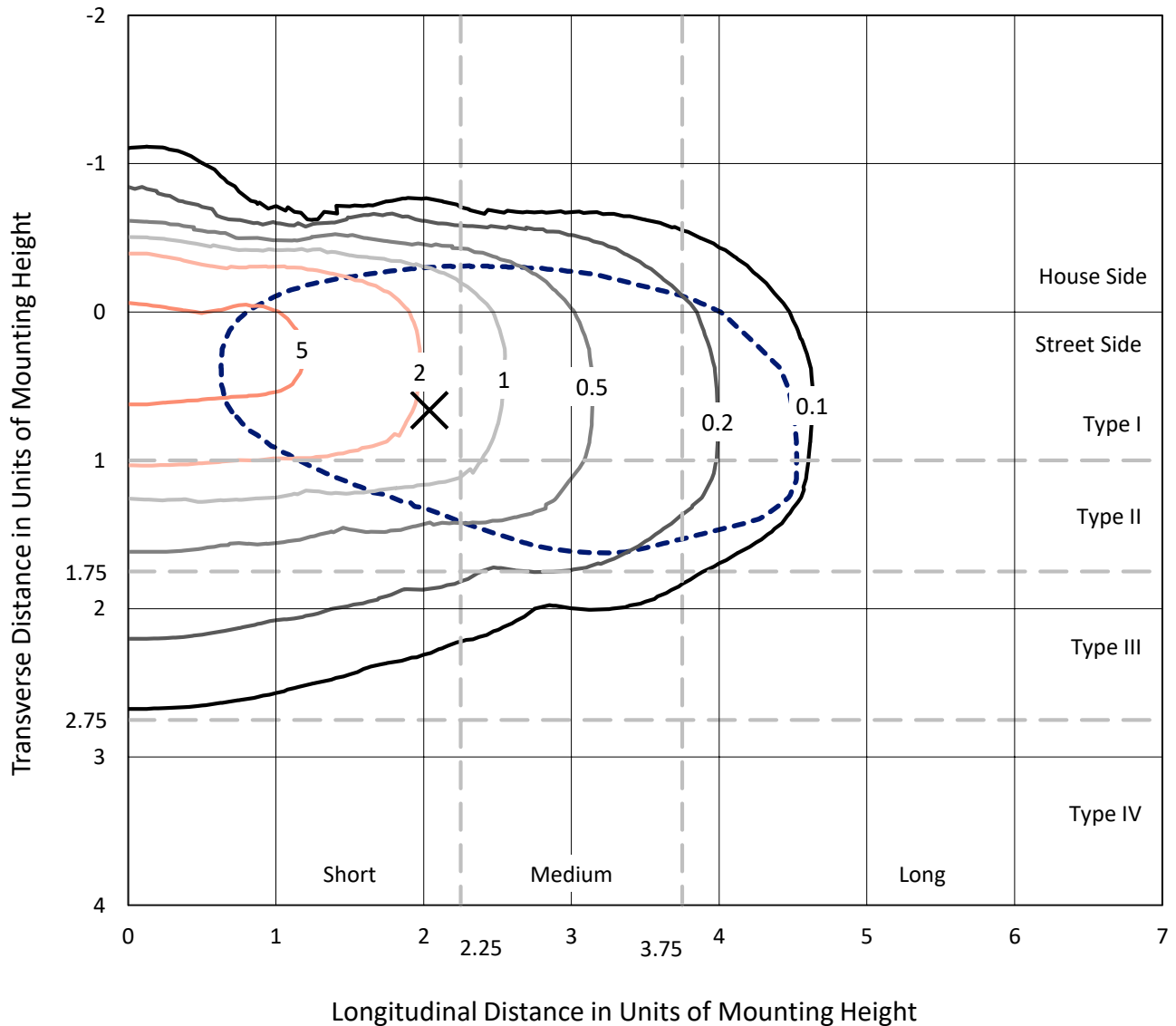


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

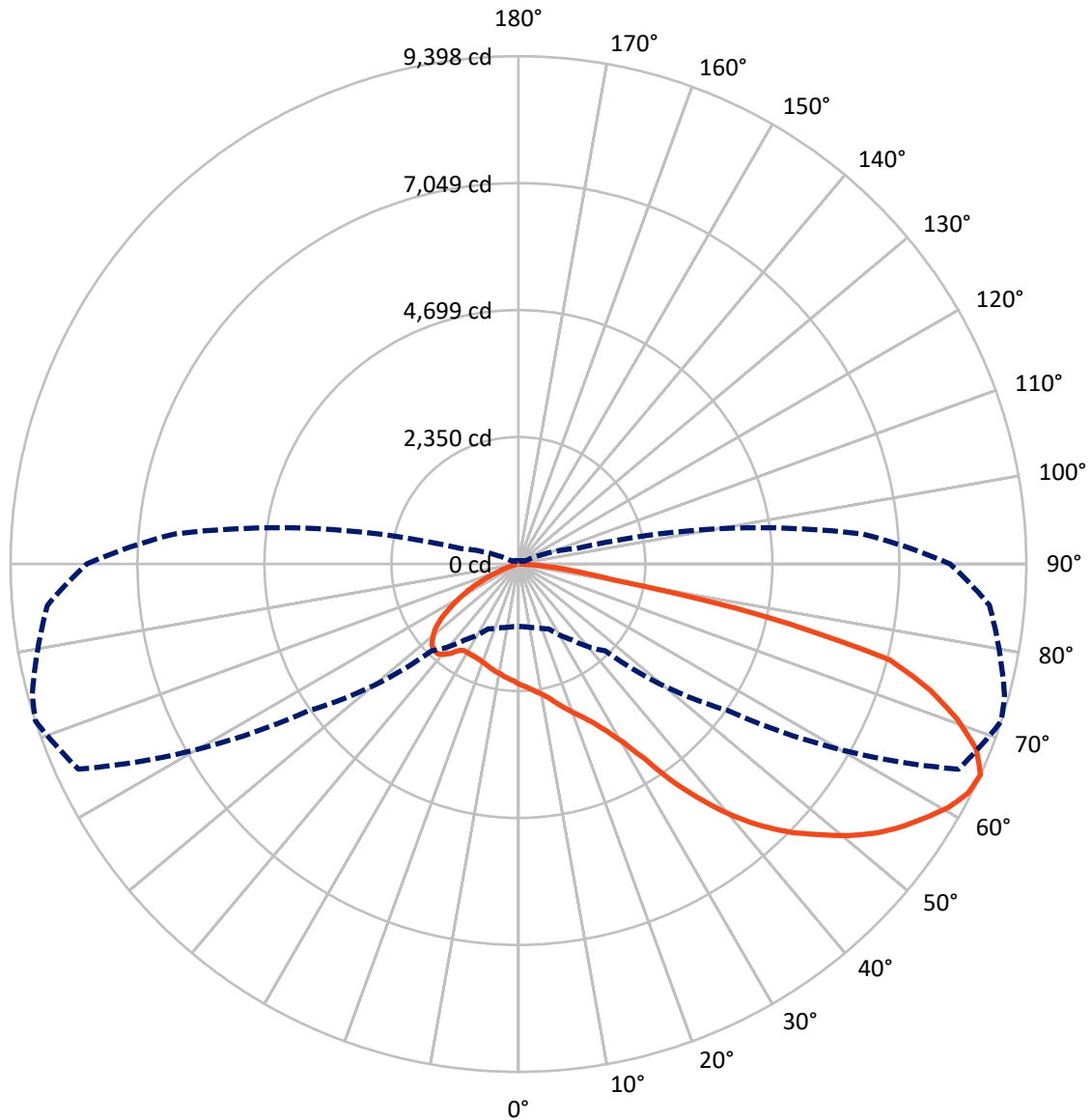


Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Non-Cutoff

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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	2628.5	0.0	2628.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	10020.5	0.0	10020.5
	% Fixture	79.2	0.0	79.2
Total	Lumens	12649.0	0.0	12649.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	1.7
10°-20°	648.6	5.1
20°-30°	1083.8	8.6
30°-40°	1603.2	12.7
40°-50°	2216.3	17.5
50°-60°	2593.5	20.5
60°-70°	2577.9	20.4
70°-80°	1544.0	12.2
80°-90°	168.1	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°	12649.0	100.0
0°-180°	12649.0	100.0



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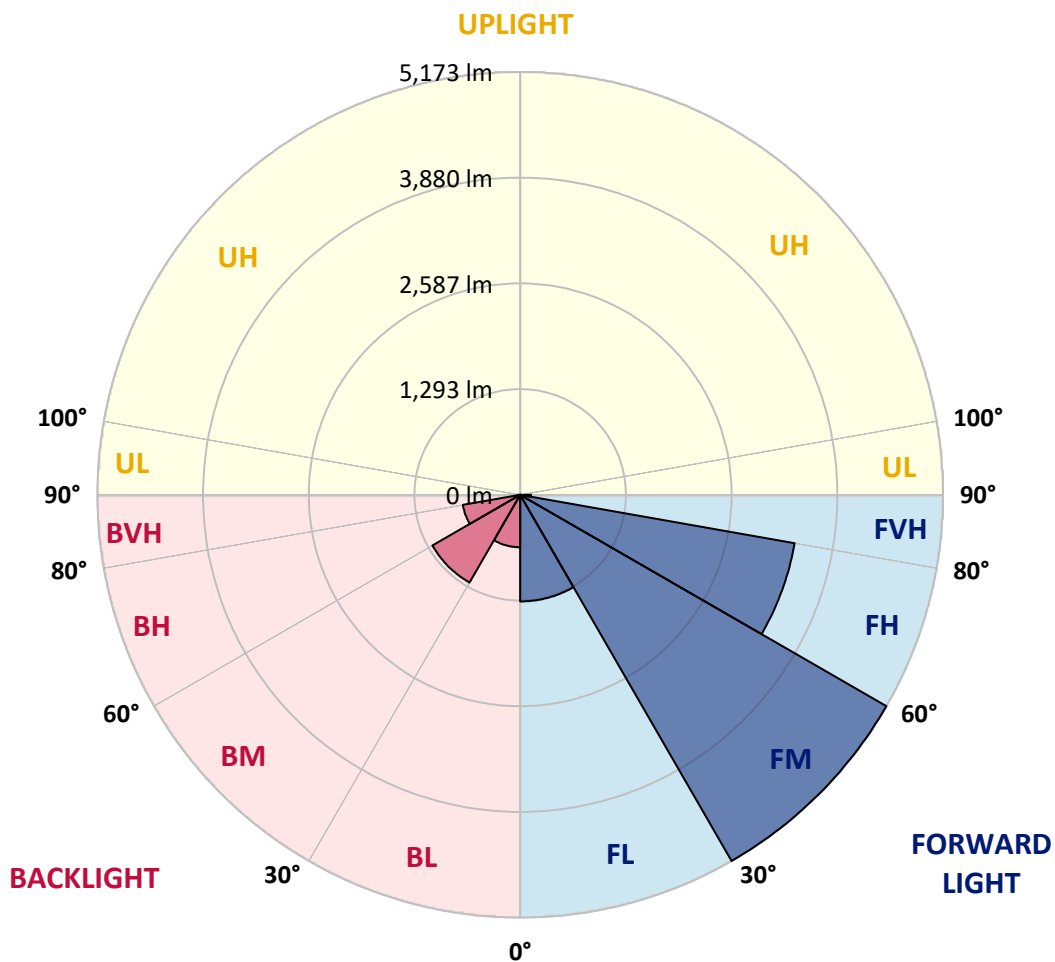
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.4	10.3			
FM (30°-60°)	5173.1	40.9			
FH (60°-80°)	3410.2	27.0			G2/5000
FVH (80°-90°)	132.9	1.1			G2/225
BL (0°-30°)	641.7	5.1	B2/1000		
BM (30°-60°)	1240.0	9.8	B2/2500		
BH (60°-80°)	711.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	35.2	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°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2417.1	2419.2	2420.2	2382.0	2361.4	2337.6	2314.9	2290.2	2264.4	2255.1	2221.0
5°	2565.7	2567.8	2561.6	2526.5	2488.3	2453.2	2409.9	2365.5	2322.2	2309.8	2252.0
7.5°	2709.2	2708.1	2703.0	2658.6	2611.1	2564.7	2503.8	2443.9	2387.2	2367.6	2281.9
10°	2827.9	2829.9	2833.0	2785.6	2739.1	2683.4	2609.1	2520.3	2455.3	2424.3	2312.9
12.5°	2957.9	2951.7	2960.0	2913.5	2849.5	2799.0	2731.9	2627.6	2550.2	2511.0	2372.7
15°	3106.5	3106.5	3095.2	3057.0	2992.0	2930.0	2863.0	2767.0	2674.1	2614.2	2453.2
17.5°	3208.7	3202.5	3199.4	3166.4	3110.7	3057.0	3005.4	2907.3	2806.2	2732.9	2528.6
20°	3252.0	3254.1	3268.6	3244.8	3214.9	3182.9	3126.1	3049.8	2938.3	2859.9	2609.1
22.5°	3335.6	3337.7	3355.3	3338.7	3330.5	3322.2	3269.6	3202.5	3083.8	3008.5	2710.2
25°	3340.8	3342.9	3390.3	3417.2	3459.5	3479.1	3443.0	3385.2	3264.4	3191.2	2860.9
27.5°	3356.3	3362.5	3411.0	3485.3	3596.8	3636.0	3615.3	3613.3	3511.1	3433.7	3057.0
30°	3342.9	3349.1	3419.2	3522.4	3677.3	3792.8	3816.6	3877.5	3836.2	3778.4	3329.5
32.5°	3247.9	3270.6	3354.2	3518.3	3746.4	3955.9	4032.3	4240.8	4302.7	4308.9	3876.4
35°	3075.6	3087.9	3239.7	3470.8	3792.8	4109.7	4320.2	4705.2	4967.3	4956.0	4482.3
37.5°	2944.5	2948.6	3104.5	3390.3	3818.7	4274.8	4648.4	5264.6	5565.9	5579.4	5029.3
40°	2776.3	2806.2	2955.8	3293.3	3804.2	4414.2	4974.6	5785.8	6136.7	6122.2	5509.2
42.5°	2619.4	2636.9	2785.6	3141.6	3751.6	4520.5	5294.5	6290.5	6635.2	6587.7	5969.5
45°	2456.3	2486.3	2622.5	2945.5	3647.3	4580.3	5584.5	6769.3	7085.1	7026.3	6375.1
47.5°	2293.3	2314.9	2459.4	2765.9	3451.2	4578.3	5869.4	7218.3	7484.6	7443.3	6759.0
50°	1745.2	1792.7	2172.5	2578.1	3175.7	4491.6	6099.5	7644.5	7903.6	7839.6	7133.7
52.5°	1599.7	1615.2	1721.5	2360.3	2881.5	4285.1	6279.1	8045.0	8273.1	8199.8	7486.6
55°	1512.0	1530.6	1573.9	1918.6	2640.0	3945.6	6353.4	8418.6	8588.9	8514.6	7801.4
57.5°	1395.4	1413.9	1499.6	1652.3	2388.2	3428.5	6244.0	8749.9	8868.6	8787.0	8093.5
60°	1314.9	1323.1	1405.7	1525.4	2112.6	2906.3	5878.7	9019.2	9143.1	9046.1	8382.5
62.5°	1240.5	1249.8	1308.7	1427.3	1884.6	2523.4	5310.0	9085.3	9338.2	9262.8	8646.7
65°	1154.9	1163.1	1216.8	1322.1	1708.1	2273.6	4723.8	8984.2	9398.0	9312.3	8748.8
67.5°	1041.4	1052.7	1095.0	1190.0	1476.9	1990.9	3851.7	8797.3	9135.9	9047.1	8539.3
70°	901.0	906.2	956.7	1042.4	1247.8	1727.7	3020.9	8132.7	8616.7	8518.7	7949.0
72.5°	727.6	736.9	791.6	881.4	1024.8	1423.2	2158.1	7027.4	7959.3	7922.2	7089.3
75°	486.1	522.2	652.3	743.1	847.3	1111.5	1449.0	4932.3	7105.8	7134.7	6056.2
77.5°	92.9	96.0	273.5	406.6	495.4	679.1	896.9	2423.3	4683.5	5190.3	4566.9
80°	60.9	66.1	116.6	284.9	328.2	336.5	460.3	1062.0	1764.8	2232.4	2633.8
82.5°	32.0	38.2	70.2	165.1	150.7	83.6	150.7	548.0	978.4	1123.9	1328.3
85°	13.4	15.5	34.1	56.8	42.3	35.1	35.1	218.8	433.5	501.6	521.2
87.5°	2.1	2.1	7.2	10.3	6.2	4.1	3.1	1.0	1.0	1.0	1.0
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°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2221.0	2202.4	2176.6	2146.7	2125.0	2113.7	2104.4	2079.6	2071.4	2087.9	2083.7
5°	2230.3	2208.6	2149.8	2101.3	2052.8	2022.9	1989.8	1946.5	1927.9	1938.2	1935.1
7.5°	2236.5	2209.7	2121.9	2046.6	1965.1	1908.3	1864.9	1808.2	1780.3	1790.6	1778.3
10°	2245.8	2205.5	2088.9	1988.8	1882.5	1799.9	1735.9	1669.9	1641.0	1649.2	1638.9
12.5°	2285.0	2220.0	2073.4	1939.3	1809.2	1706.0	1625.5	1555.3	1514.0	1522.3	1514.0
15°	2349.0	2248.9	2050.7	1876.3	1731.8	1614.2	1521.3	1440.8	1393.3	1404.6	1394.3
17.5°	2416.1	2284.0	2030.1	1806.1	1649.2	1518.2	1421.2	1353.0	1276.7	1283.9	1268.4
20°	2473.9	2317.0	2018.7	1740.1	1571.8	1416.0	1299.4	1252.9	1147.7	1120.8	1103.3
22.5°	2554.4	2365.5	2009.4	1686.4	1475.9	1313.8	1175.5	1088.8	975.3	918.5	913.4
25°	2668.9	2437.7	2008.4	1644.1	1389.2	1206.5	1013.5	868.0	767.9	700.8	691.5
27.5°	2814.4	2533.7	2019.8	1601.8	1302.5	1071.3	814.3	653.3	563.5	511.9	502.6
30°	3024.0	2659.6	2034.2	1553.3	1205.5	895.8	606.9	480.9	406.6	369.5	362.3
32.5°	3472.9	2982.7	2055.9	1502.7	1088.8	675.0	440.7	348.8	292.1	269.4	280.7
35°	4013.7	3421.3	2152.9	1437.7	936.1	480.9	317.9	248.7	209.5	214.7	220.9
37.5°	4486.4	3840.3	2370.7	1354.1	731.7	353.0	218.8	185.8	185.8	202.3	216.7
40°	4932.3	4218.1	2565.7	1240.5	512.9	243.6	169.3	172.4	169.3	179.6	176.5
42.5°	5353.3	4576.2	2718.5	1105.3	335.4	168.2	153.8	160.0	154.8	156.9	147.6
45°	5751.7	4946.7	2803.1	906.2	222.9	146.6	141.4	151.7	150.7	148.6	139.3
47.5°	6120.2	5272.8	2845.4	653.3	153.8	132.1	133.1	140.4	143.5	141.4	136.2
50°	6481.4	5597.9	2807.2	391.2	138.3	120.8	128.0	128.0	134.2	122.8	118.7
52.5°	6827.1	5924.1	2686.5	237.4	126.9	112.5	118.7	116.6	119.7	108.4	106.3
55°	7152.2	6166.6	2448.1	186.8	119.7	107.3	108.4	110.4	105.3	92.9	97.0
57.5°	7495.9	6373.0	2115.7	169.3	116.6	100.1	102.2	101.1	92.9	81.5	81.5
60°	7778.7	6522.7	1782.4	153.8	114.6	98.0	90.8	88.8	76.4	70.2	69.1
62.5°	7973.8	6565.0	1457.3	137.3	108.4	90.8	81.5	75.3	64.0	57.8	55.7
65°	7989.2	6384.4	1109.5	123.8	102.2	84.6	75.3	61.9	50.6	45.4	43.3
67.5°	7672.4	5882.8	782.3	113.5	91.9	78.4	66.1	49.5	40.3	36.1	35.1
70°	7009.8	5259.4	478.9	99.1	83.6	73.3	68.1	40.3	33.0	27.9	27.9
72.5°	6151.1	4555.5	280.7	84.6	70.2	58.8	45.4	34.1	27.9	21.7	21.7
75°	5271.8	3616.4	172.4	64.0	51.6	46.4	35.1	28.9	22.7	16.5	16.5
77.5°	3795.9	2670.0	134.2	41.3	32.0	33.0	25.8	22.7	18.6	13.4	13.4
80°	2329.4	1625.5	96.0	27.9	18.6	18.6	18.6	17.5	13.4	11.4	10.3
82.5°	1180.7	743.1	47.5	16.5	11.4	11.4	11.4	12.4	10.3	8.3	8.3
85°	414.9	208.5	14.4	8.3	7.2	7.2	6.2	6.2	5.2	4.1	4.1
87.5°	1.0	2.1	2.1	3.1	4.1	4.1	3.1	2.1	1.0	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)