

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: P233916

Luminaire Tested: **VERD-G-C02H-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233916
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-C02H-D-U-T2-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1370mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15161 lumens
Efficiency: N/A
Efficacy: 97.8 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

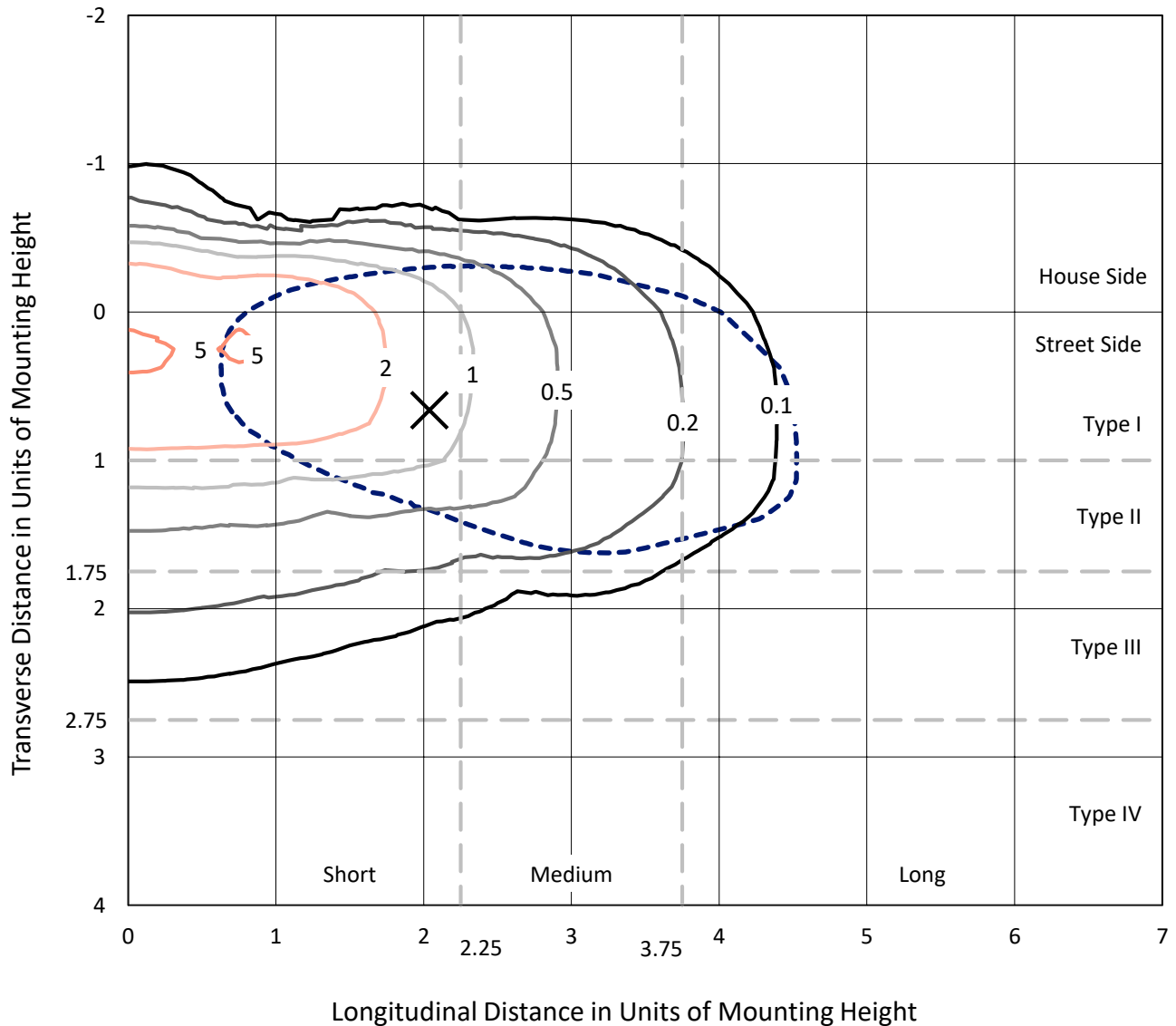
Input Watts (W): 155
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

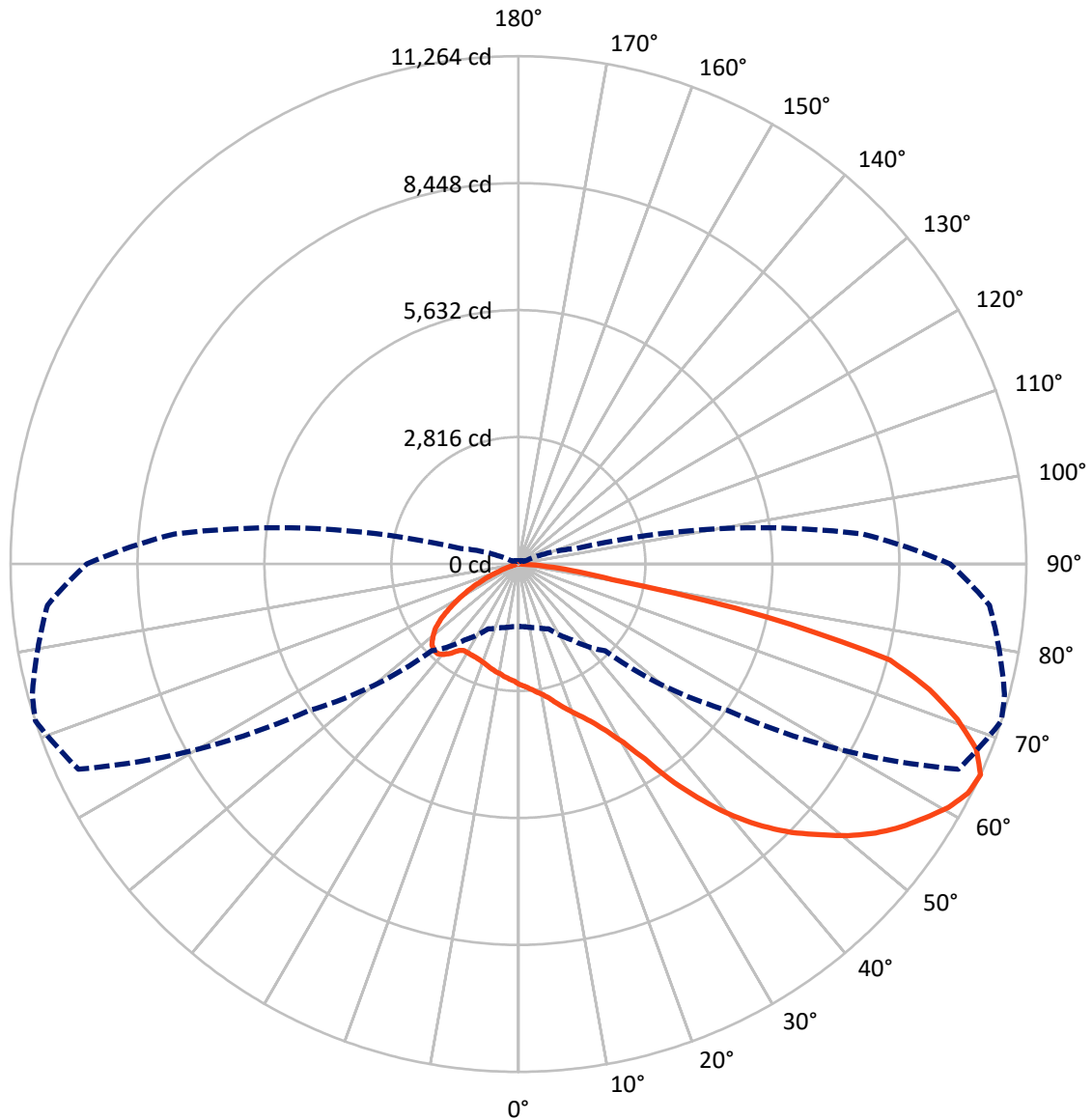
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	3150.5	0.0	3150.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	12010.5	0.0	12010.5
	% Fixture	79.2	0.0	79.2
Total	Lumens	15161.0	0.0	15161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	1.7
10°-20°	777.4	5.1
20°-30°	1299.0	8.6
30°-40°	1921.6	12.7
40°-50°	2656.5	17.5
50°-60°	3108.6	20.5
60°-70°	3089.9	20.4
70°-80°	1850.6	12.2
80°-90°	201.4	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°	15161.0	100.0
0°-180°	15161.0	100.0



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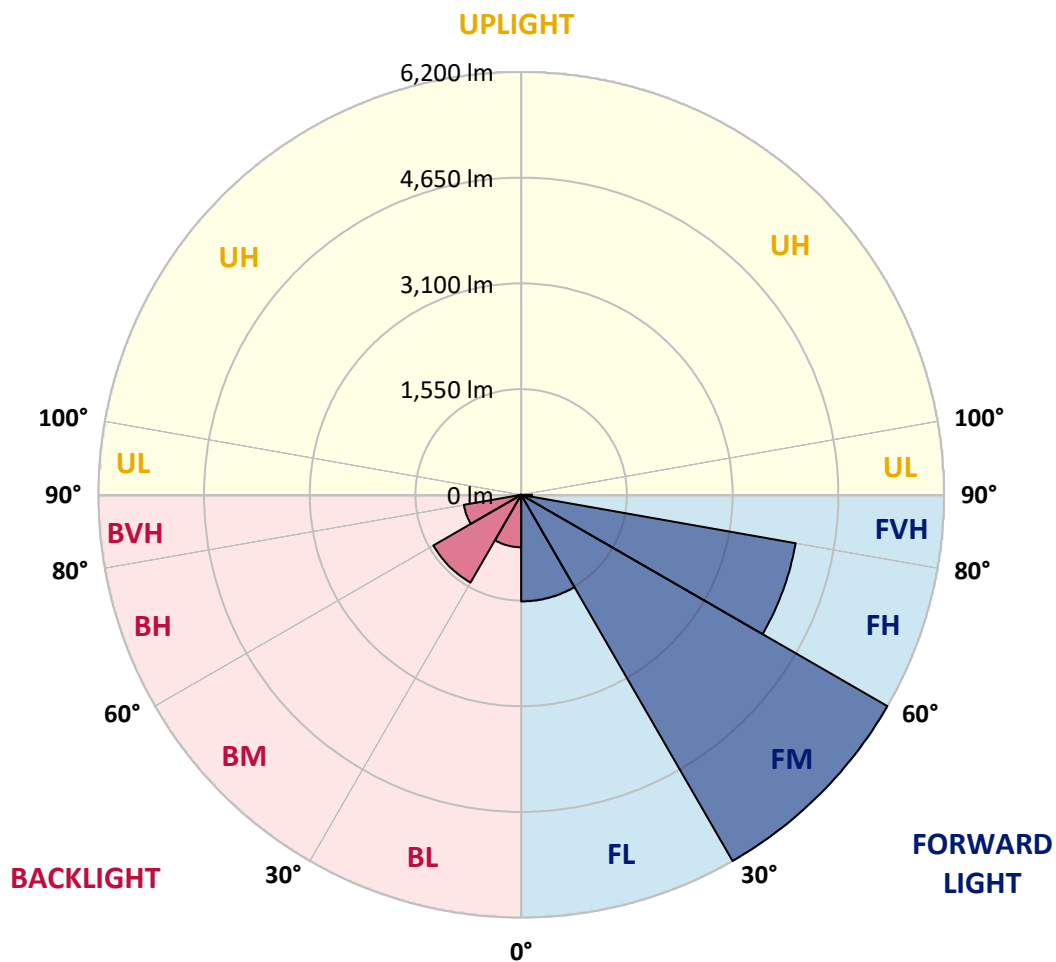
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1563.4	10.3			
FM	(30°-60°)	6200.4	40.9			
FH	(60°-80°)	4087.4	27.0			G2/5000
FVH	(80°-90°)	159.2	1.1			G2/225
BL	(0°-30°)	769.1	5.1	B2/1000		
BM	(30°-60°)	1486.2	9.8	B2/2500		
BH	(60°-80°)	853.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	42.2	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°	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0
2.5°	2897.1	2899.6	2900.8	2855.1	2830.3	2801.9	2774.7	2745.0	2714.0	2702.9	2662.1
5°	3075.3	3077.7	3070.3	3028.2	2982.5	2940.4	2888.5	2835.3	2783.3	2768.5	2699.2
7.5°	3247.2	3246.0	3239.8	3186.6	3129.7	3074.0	3001.0	2929.3	2861.2	2837.7	2735.1
10°	3389.5	3391.9	3395.6	3338.7	3283.1	3216.3	3127.2	3020.8	2942.9	2905.8	2772.2
12.5°	3545.3	3537.9	3547.8	3492.1	3415.4	3354.8	3274.4	3149.5	3056.7	3009.7	2843.9
15°	3723.5	3723.5	3709.9	3664.1	3586.1	3511.9	3431.5	3316.5	3205.1	3133.4	2940.4
17.5°	3845.9	3838.5	3834.8	3795.2	3728.4	3664.1	3602.2	3484.7	3363.5	3275.7	3030.7
20°	3897.9	3900.4	3917.7	3889.2	3853.3	3815.0	3747.0	3655.4	3521.8	3427.8	3127.2
22.5°	3998.1	4000.6	4021.6	4001.8	3991.9	3982.0	3918.9	3838.5	3696.2	3605.9	3248.4
25°	4004.3	4006.7	4063.6	4095.8	4146.5	4170.0	4126.7	4057.5	3912.7	3824.9	3429.0
27.5°	4022.8	4030.2	4088.4	4177.4	4311.0	4358.1	4333.3	4330.8	4208.4	4115.6	3664.1
30°	4006.7	4014.2	4098.3	4222.0	4407.5	4546.1	4574.5	4647.5	4598.0	4528.8	3990.7
32.5°	3892.9	3920.1	4020.3	4217.0	4490.4	4741.5	4833.1	5083.0	5157.2	5164.6	4646.3
35°	3686.3	3701.2	3883.0	4160.1	4546.1	4925.9	5178.2	5639.6	5953.8	5940.2	5372.4
37.5°	3529.2	3534.2	3721.0	4063.6	4577.0	5123.8	5571.6	6310.1	6671.3	6687.4	6028.0
40°	3327.6	3363.5	3542.9	3947.4	4559.7	5290.8	5962.5	6934.8	7355.4	7338.1	6603.3
42.5°	3139.6	3160.6	3338.7	3765.5	4496.6	5418.2	6346.0	7539.7	7952.9	7896.0	7155.0
45°	2944.1	2980.0	3143.3	3530.5	4371.7	5489.9	6693.6	8113.7	8492.2	8421.7	7641.1
47.5°	2748.7	2774.7	2947.8	3315.2	4136.6	5487.5	7035.0	8651.8	8970.9	8921.5	8101.3
50°	2091.8	2148.7	2603.9	3090.1	3806.3	5383.6	7310.8	9162.7	9473.2	9396.5	8550.3
52.5°	1917.4	1936.0	2063.4	2829.1	3453.8	5136.1	7526.1	9642.6	9916.0	9828.2	8973.4
55°	1812.2	1834.5	1886.5	2299.6	3164.3	4729.2	7615.2	10090.4	10294.6	10205.5	9350.7
57.5°	1672.5	1694.7	1797.4	1980.5	2862.5	4109.4	7484.0	10487.5	10629.8	10532.1	9700.8
60°	1576.0	1585.9	1684.8	1828.3	2532.2	3483.5	7046.1	10810.4	10958.8	10842.6	10047.2
62.5°	1486.9	1498.0	1568.6	1710.8	2258.8	3024.5	6364.5	10889.6	11192.6	11102.3	10363.8
65°	1384.2	1394.1	1458.5	1584.6	2047.3	2725.2	5661.9	10768.3	11264.4	11161.7	10486.3
67.5°	1248.2	1261.8	1312.5	1426.3	1770.2	2386.2	4616.6	10544.4	10950.2	10843.8	10235.2
70°	1079.9	1086.1	1146.7	1249.4	1495.6	2070.8	3620.8	9747.8	10328.0	10210.4	9527.6
72.5°	872.1	883.2	948.8	1056.4	1228.4	1705.9	2586.6	8422.9	9540.0	9495.4	8497.2
75°	582.6	625.9	781.8	890.7	1015.6	1332.3	1736.8	5911.8	8516.9	8551.6	7258.9
77.5°	111.3	115.0	327.8	487.4	593.8	814.0	1075.0	2904.5	5613.6	6221.0	5473.9
80°	73.0	79.2	139.8	341.4	393.4	403.3	551.7	1272.9	2115.3	2675.7	3156.9
82.5°	38.3	45.8	84.1	197.9	180.6	100.2	180.6	656.9	1172.7	1347.1	1592.1
85°	16.1	18.6	40.8	68.0	50.7	42.1	42.1	262.3	519.6	601.2	624.7
87.5°	2.5	2.5	8.7	12.4	7.4	4.9	3.7	1.2	1.2	1.2	1.2
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°	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0	2672.0
2.5°	2662.1	2639.8	2608.9	2573.0	2547.0	2533.4	2522.3	2492.6	2482.7	2502.5	2497.6
5°	2673.2	2647.2	2576.7	2518.6	2460.5	2424.6	2385.0	2333.0	2310.8	2323.1	2319.4
7.5°	2680.6	2648.5	2543.3	2453.0	2355.3	2287.3	2235.3	2167.3	2133.9	2146.2	2131.4
10°	2691.8	2643.5	2503.7	2383.8	2256.3	2157.4	2080.7	2001.5	1966.9	1976.8	1964.4
12.5°	2738.8	2660.8	2485.2	2324.4	2168.5	2044.8	1948.3	1864.2	1814.7	1824.6	1814.7
15°	2815.5	2695.5	2458.0	2248.9	2075.7	1934.7	1823.4	1726.9	1670.0	1683.6	1671.2
17.5°	2895.9	2737.5	2433.2	2164.8	1976.8	1819.7	1703.4	1621.7	1530.2	1538.9	1520.3
20°	2965.2	2777.1	2419.6	2085.6	1884.0	1697.2	1557.4	1501.8	1375.6	1343.4	1322.4
22.5°	3061.6	2835.3	2408.5	2021.3	1769.0	1574.7	1409.0	1305.1	1169.0	1101.0	1094.8
25°	3199.0	2921.9	2407.3	1970.6	1665.0	1446.1	1214.8	1040.3	920.3	839.9	828.8
27.5°	3373.4	3036.9	2420.9	1919.9	1561.1	1284.0	976.0	783.0	675.4	613.6	602.4
30°	3624.5	3187.8	2438.2	1861.7	1444.9	1073.7	727.4	576.5	487.4	442.9	434.2
32.5°	4162.6	3575.0	2464.2	1801.1	1305.1	809.0	528.2	418.1	350.1	322.9	336.5
35°	4810.8	4100.8	2580.4	1723.2	1122.0	576.5	381.0	298.1	251.1	257.3	264.7
37.5°	5377.4	4603.0	2841.5	1623.0	877.1	423.1	262.3	222.7	222.7	242.5	259.8
40°	5911.8	5055.7	3075.3	1486.9	614.8	291.9	202.9	206.6	202.9	215.2	211.5
42.5°	6416.5	5485.0	3258.3	1324.9	402.0	201.6	184.3	191.7	185.6	188.0	176.9
45°	6894.0	5929.1	3359.8	1086.1	267.2	175.7	169.5	181.8	180.6	178.1	167.0
47.5°	7335.6	6320.0	3410.5	783.0	184.3	158.3	159.6	168.2	171.9	169.5	163.3
50°	7768.5	6709.6	3364.7	468.8	165.8	144.7	153.4	153.4	160.8	147.2	142.3
52.5°	8182.9	7100.5	3220.0	284.5	152.2	134.8	142.3	139.8	143.5	129.9	127.4
55°	8572.6	7391.2	2934.2	223.9	143.5	128.7	129.9	132.4	126.2	111.3	116.3
57.5°	8984.5	7638.7	2535.9	202.9	139.8	120.0	122.5	121.2	111.3	97.7	97.7
60°	9323.5	7818.0	2136.3	184.3	137.3	117.5	108.9	106.4	91.5	84.1	82.9
62.5°	9557.3	7868.7	1746.7	164.5	129.9	108.9	97.7	90.3	76.7	69.3	66.8
65°	9575.8	7652.3	1329.8	148.4	122.5	101.4	90.3	74.2	60.6	54.4	52.0
67.5°	9196.1	7051.1	937.7	136.1	110.1	94.0	79.2	59.4	48.2	43.3	42.1
70°	8401.9	6303.9	574.0	118.8	100.2	87.8	81.6	48.2	39.6	33.4	33.4
72.5°	7372.7	5460.2	336.5	101.4	84.1	70.5	54.4	40.8	33.4	26.0	26.0
75°	6318.7	4334.6	206.6	76.7	61.9	55.7	42.1	34.6	27.2	19.8	19.8
77.5°	4549.8	3200.2	160.8	49.5	38.3	39.6	30.9	27.2	22.3	16.1	16.1
80°	2792.0	1948.3	115.0	33.4	22.3	22.3	22.3	21.0	16.1	13.6	12.4
82.5°	1415.2	890.7	56.9	19.8	13.6	13.6	13.6	14.8	12.4	9.9	9.9
85°	497.3	249.9	17.3	9.9	8.7	8.7	7.4	7.4	6.2	4.9	4.9
87.5°	1.2	2.5	2.5	3.7	4.9	4.9	3.7	2.5	1.2	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)