

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: P233932

Luminaire Tested: **VERD-G-C02H-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
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-T3-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1370mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15525 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

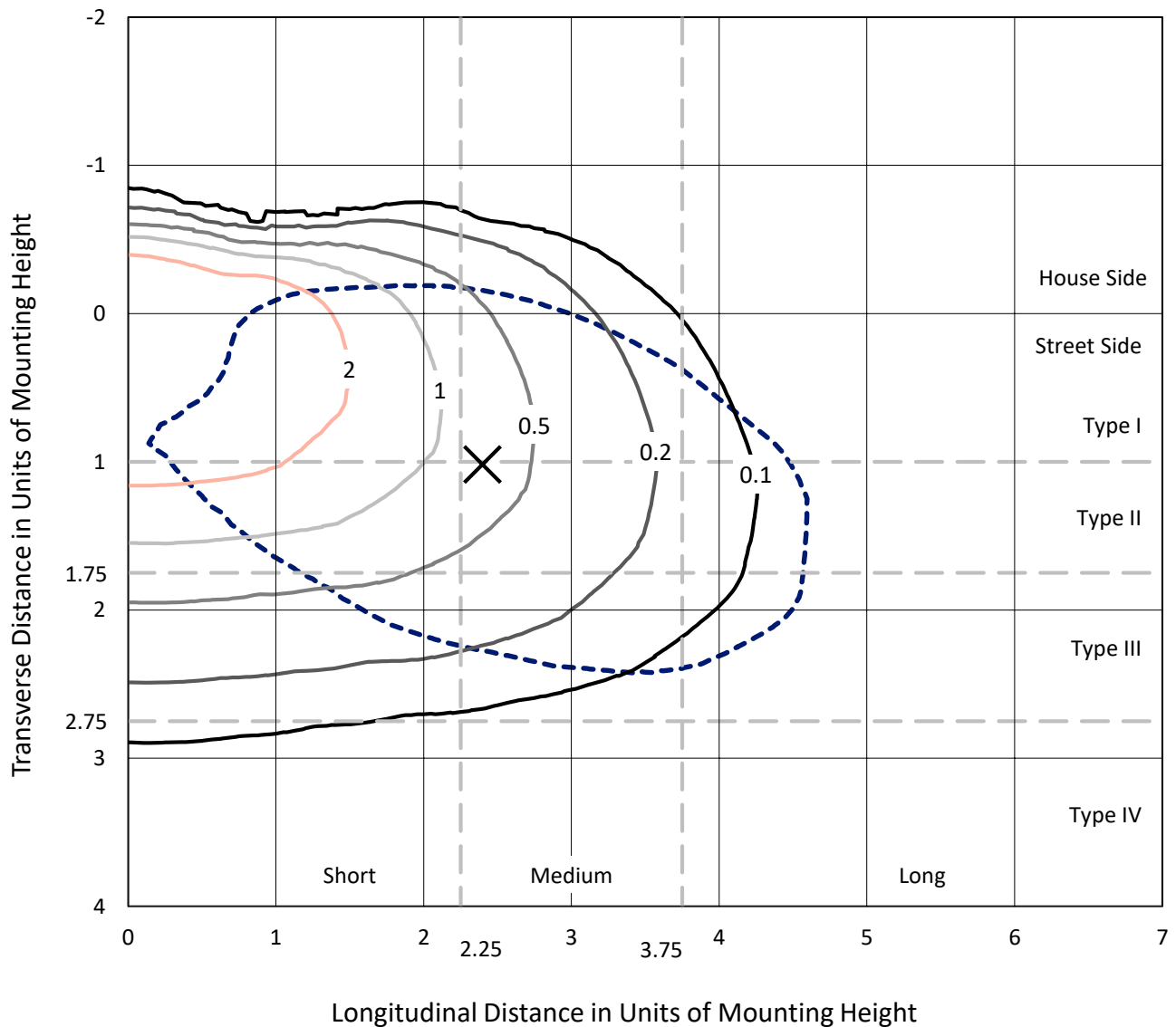
Input Watts (W): 155
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233932
 CATALOG NUMBER: VERD-G-C02H-D-U-T3-8027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

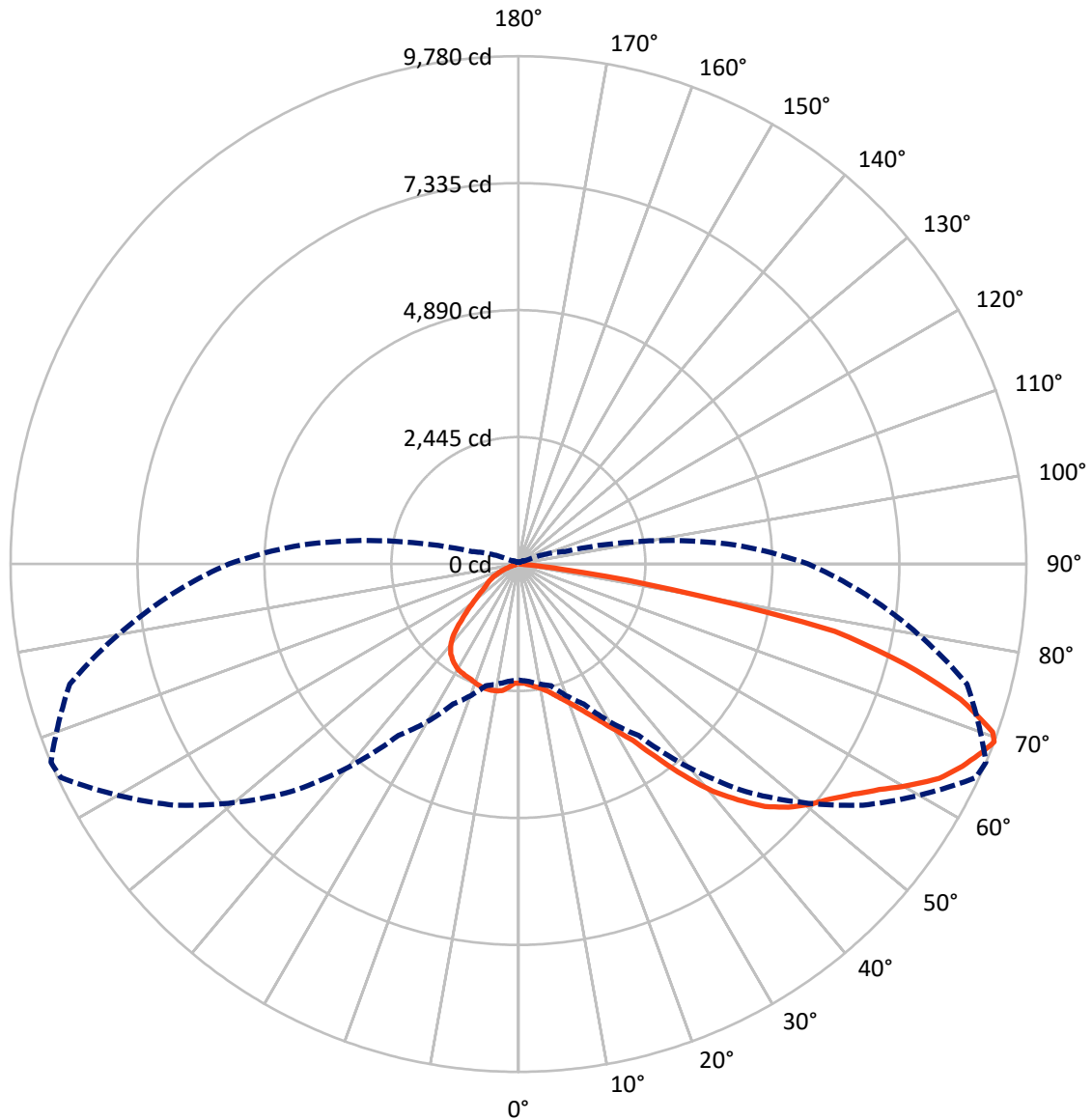


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233932

CATALOG NUMBER: VERD-G-C02H-D-U-T3-8027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P233932

CATALOG NUMBER: VERD-G-C02H-D-U-T3-8027-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2798.7	0.0	2798.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	12726.3	0.0	12726.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	15525.0	0.0	15525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	1.5
10°-20°	728.8	4.7
20°-30°	1244.0	8.0
30°-40°	1880.9	12.1
40°-50°	2657.2	17.1
50°-60°	3211.3	20.7
60°-70°	3388.5	21.8
70°-80°	2039.9	13.1
80°-90°	142.6	0.9
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°	15525.0	100.0
0°-180°	15525.0	100.0

Coefficient of Utilization



REPORT NUMBER: P233932

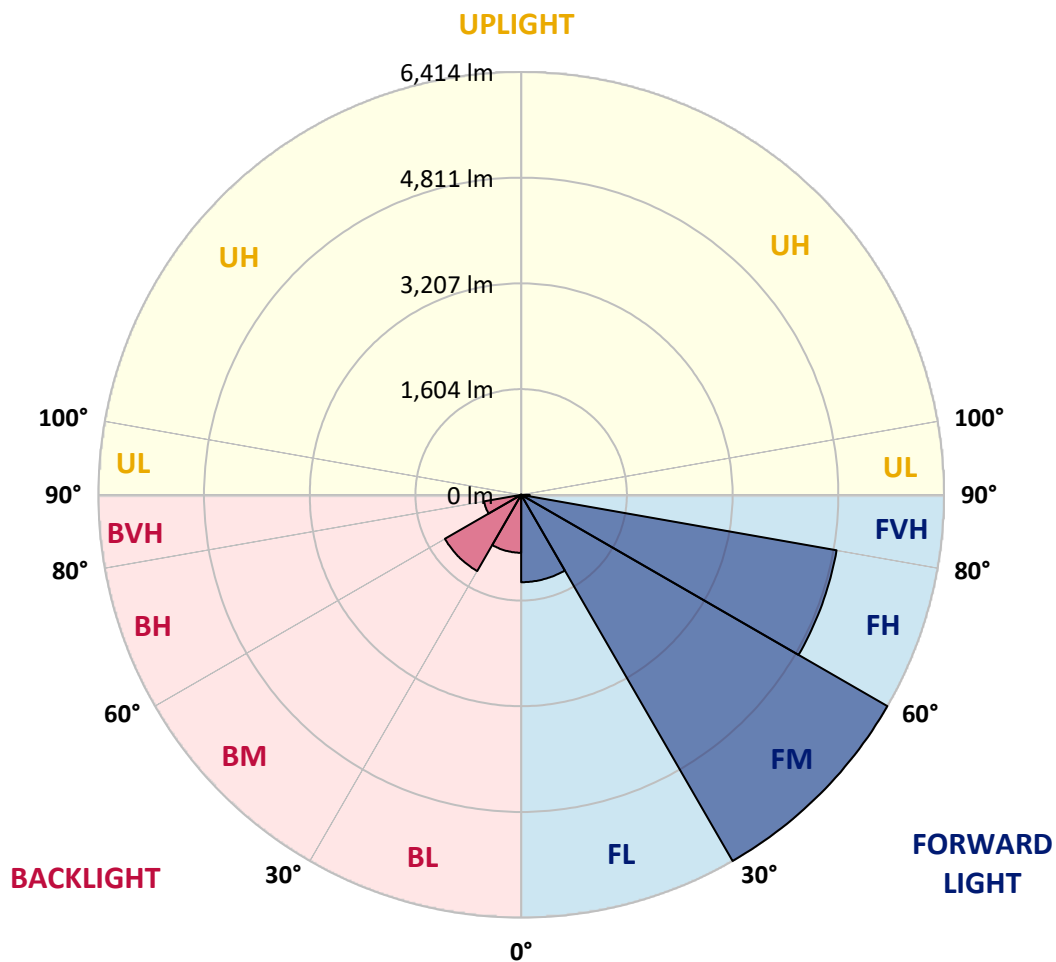
CATALOG NUMBER: VERD-G-C02H-D-U-T3-8027-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.7	8.5			
FM	(30°-60°)	6414.1	41.3			
FH	(60°-80°)	4857.8	31.3			G2/5000
FVH	(80°-90°)	128.7	0.8			G2/225
BL	(0°-30°)	878.9	5.7	B2/1000		
BM	(30°-60°)	1335.4	8.6	B2/2500		
BH	(60°-80°)	570.6	3.7	B2/1000		G2/1000
BVH	(80°-90°)	13.8	0.1			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 III Medium





REPORT NUMBER: P233932

CATALOG NUMBER: VERD-G-C02H-D-U-T3-8027-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9
2.5°	2355.3	2351.6	2351.6	2330.6	2310.8	2305.8	2304.6	2298.4	2299.6	2291.0	2282.3
5°	2423.3	2423.3	2420.9	2393.6	2372.6	2359.0	2350.3	2339.2	2340.4	2334.3	2326.8
7.5°	2526.0	2527.2	2522.3	2486.4	2465.4	2432.0	2412.2	2391.2	2389.9	2382.5	2385.0
10°	2652.2	2655.9	2648.5	2602.7	2566.8	2521.1	2479.0	2441.9	2439.4	2430.7	2438.2
12.5°	2794.4	2799.4	2780.8	2733.8	2693.0	2621.3	2570.5	2521.1	2513.6	2512.4	2517.3
15°	2957.7	2960.2	2954.0	2884.7	2835.3	2769.7	2686.8	2623.7	2616.3	2617.5	2611.4
17.5°	3139.6	3145.7	3132.1	3070.3	3004.7	2914.4	2815.5	2737.5	2733.8	2730.1	2702.9
20°	3332.5	3338.7	3330.1	3271.9	3194.0	3080.2	2959.0	2869.9	2868.7	2860.0	2796.9
22.5°	3550.3	3558.9	3554.0	3483.5	3400.6	3276.9	3126.0	3033.2	3030.7	3003.5	2908.2
25°	3786.5	3784.1	3789.0	3713.5	3635.6	3505.7	3318.9	3222.4	3222.4	3189.0	3048.0
27.5°	4015.4	4014.1	4022.8	3969.6	3888.0	3765.5	3540.4	3442.6	3451.3	3403.0	3216.3
30°	4238.0	4238.0	4259.1	4224.4	4163.8	4035.2	3815.0	3712.3	3723.4	3672.7	3429.0
32.5°	4445.9	4455.8	4491.6	4470.6	4424.8	4308.5	4120.5	4026.5	4052.5	4073.5	3824.9
35°	4599.2	4609.1	4692.0	4699.4	4688.3	4610.4	4470.6	4531.2	4562.1	4727.9	4450.8
37.5°	4734.1	4746.5	4845.4	4907.3	4943.1	4894.9	4903.6	5106.4	5164.6	5360.0	4985.2
40°	4833.0	4860.3	4958.0	5043.3	5169.5	5226.4	5367.4	5655.7	5749.7	5827.6	5352.6
42.5°	4765.0	4783.6	4955.5	5184.4	5368.7	5569.1	5797.9	6140.6	6211.1	6186.3	5676.7
45°	4664.8	4687.1	4867.7	5221.5	5527.0	5926.6	6206.1	6577.2	6657.7	6520.3	5956.3
47.5°	4552.2	4583.2	4778.6	5172.0	5659.4	6255.6	6576.0	6952.1	6999.1	6818.5	6191.3
50°	4438.4	4473.1	4694.5	5131.2	5762.0	6530.2	6845.7	7257.6	7271.2	7065.9	6402.8
52.5°	4285.0	4320.9	4563.4	5045.8	5833.8	6710.8	7082.0	7508.7	7517.4	7333.1	6603.2
55°	4090.8	4136.6	4392.7	4919.6	5851.1	6816.0	7231.6	7769.7	7827.9	7622.5	6767.7
57.5°	3862.0	3904.0	4186.1	4737.8	5764.5	6851.9	7440.7	8114.9	8195.3	7915.7	6903.8
60°	3598.5	3646.7	3930.0	4502.8	5590.1	6952.1	7787.1	8602.3	8650.5	8222.5	7023.8
62.5°	3328.8	3363.5	3620.8	4172.5	5318.0	7012.7	8093.8	9060.0	9092.1	8518.1	7095.6
65°	2945.4	2988.6	3239.8	3793.9	4925.8	6896.4	8211.4	9372.9	9392.7	8765.5	7060.9
67.5°	2528.5	2563.1	2746.2	3337.5	4411.2	6527.8	8163.1	9582.0	9645.1	8958.5	6903.8
69°	2232.8	2267.5	2425.8	2972.6	4029.0	6201.2	8095.1	9724.2	9779.9	8944.9	6703.4
70°	2002.7	2037.4	2187.1	2700.4	3729.6	5925.3	7987.5	9652.5	9688.4	8792.8	6508.0
72.5°	1432.5	1467.1	1589.6	1898.8	2825.4	4870.2	7320.7	8855.8	8904.1	8061.7	5816.5
75°	749.6	832.5	1052.7	1227.1	1673.7	3429.0	6086.1	7616.3	7686.9	7074.5	4783.6
77.5°	96.5	101.4	296.9	498.5	691.5	1446.1	4323.4	6115.8	6227.2	5661.9	3307.8
80°	77.9	79.2	102.7	248.6	343.9	586.3	1533.9	2862.5	2997.3	2516.1	1216.0
82.5°	54.4	56.9	80.4	131.1	112.6	214.0	533.2	809.0	833.8	721.2	484.9
85°	30.9	30.9	38.3	50.7	35.9	80.4	110.1	117.5	105.1	103.9	77.9
87.5°	8.7	9.9	11.1	8.7	3.7	3.7	4.9	4.9	4.9	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233932

CATALOG NUMBER: VERD-G-C02H-D-U-T3-8027-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9
2.5°	2295.9	2293.4	2294.7	2299.6	2307.0	2334.3	2352.8	2355.3	2363.9	2396.1	2392.4
5°	2335.5	2350.3	2359.0	2385.0	2402.3	2439.4	2461.7	2464.1	2476.5	2509.9	2511.2
7.5°	2391.2	2415.9	2428.3	2458.0	2464.1	2481.5	2487.7	2481.5	2482.7	2512.4	2514.9
10°	2439.4	2470.3	2470.3	2477.8	2466.6	2467.9	2448.1	2429.5	2419.6	2445.6	2451.8
12.5°	2513.6	2522.3	2502.5	2480.2	2446.8	2417.1	2383.7	2354.1	2330.6	2345.4	2336.7
15°	2590.3	2576.7	2528.5	2470.3	2411.0	2360.2	2291.0	2247.7	2206.8	2215.5	2208.1
17.5°	2667.0	2622.5	2547.0	2450.5	2363.9	2267.5	2171.0	2102.9	2028.7	2022.5	2011.4
20°	2741.2	2676.9	2552.0	2409.7	2288.5	2152.4	2002.7	1886.5	1776.4	1747.9	1729.4
22.5°	2830.3	2737.5	2558.2	2370.1	2206.8	2021.3	1794.9	1614.3	1495.6	1456.0	1437.4
25°	2944.1	2821.6	2575.5	2340.4	2124.0	1859.2	1548.8	1342.2	1213.5	1145.5	1139.3
27.5°	3078.9	2923.1	2605.2	2302.1	2006.5	1642.8	1293.9	1078.7	941.4	872.1	849.8
30°	3255.8	3049.3	2632.4	2272.4	1840.7	1406.5	1026.7	786.7	623.5	578.9	555.4
32.5°	3591.1	3254.6	2667.0	2203.1	1645.2	1148.0	727.4	484.9	373.6	343.9	343.9
35°	4136.6	3706.1	2753.6	2107.9	1410.2	836.2	436.7	272.1	222.7	205.3	196.7
37.5°	4628.9	4161.3	2970.1	1960.7	1124.5	494.8	249.9	168.2	152.2	154.6	154.6
40°	4976.5	4473.1	3208.8	1761.5	763.2	264.7	158.3	134.8	137.3	138.5	138.5
42.5°	5274.7	4739.0	3340.0	1525.2	415.6	171.9	136.1	122.5	126.2	124.9	123.7
45°	5524.5	4955.5	3383.3	1199.9	201.6	152.2	123.7	112.6	112.6	111.3	111.3
47.5°	5738.5	5147.2	3302.8	891.9	163.3	139.8	117.5	103.9	102.7	108.9	108.9
50°	5934.0	5295.7	3102.5	675.4	158.3	128.7	111.3	96.5	97.7	106.4	106.4
52.5°	6097.3	5383.5	2805.6	505.9	147.2	118.8	102.7	90.3	90.3	99.0	99.0
55°	6218.5	5383.5	2579.2	378.5	141.0	108.9	95.3	86.6	81.6	84.1	85.4
57.5°	6279.1	5282.1	2397.3	306.8	133.6	99.0	87.8	75.5	66.8	69.3	68.0
60°	6263.0	5223.9	2188.3	273.4	124.9	91.5	77.9	64.3	55.7	53.2	53.2
62.5°	6233.4	5158.4	1927.3	237.5	116.3	85.4	64.3	52.0	47.0	44.5	45.8
65°	6120.8	4945.6	1597.0	197.9	107.6	82.9	54.4	45.8	40.8	38.3	38.3
67.5°	5848.6	4562.1	1207.3	167.0	100.2	66.8	47.0	39.6	34.6	32.2	32.2
69°	5579.0	4196.0	926.5	152.2	95.3	60.6	43.3	35.9	32.2	28.5	28.5
70°	5346.4	3912.7	726.1	142.3	91.5	58.1	42.1	34.6	30.9	27.2	27.2
72.5°	4552.2	3103.7	368.6	123.7	76.7	50.7	37.1	30.9	26.0	22.3	22.3
75°	3531.7	2138.8	243.7	97.7	59.4	45.8	33.4	27.2	22.3	18.6	17.3
77.5°	2125.2	836.2	174.4	63.1	38.3	35.9	27.2	22.3	18.6	14.8	14.8
80°	586.3	358.7	117.5	42.1	22.3	23.5	19.8	16.1	13.6	11.1	11.1
82.5°	352.6	232.6	77.9	27.2	14.8	14.8	11.1	11.1	8.7	8.7	8.7
85°	60.6	47.0	18.6	11.1	8.7	8.7	6.2	3.7	3.7	3.7	3.7
87.5°	3.7	3.7	3.7	4.9	4.9	3.7	2.5	1.2	0.0	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)