

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: P233530

Luminaire Tested: **VERD-C02H-D-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H-D-U-T3-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14447 lumens
Efficiency: N/A
Efficacy: 120.4 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): 120
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

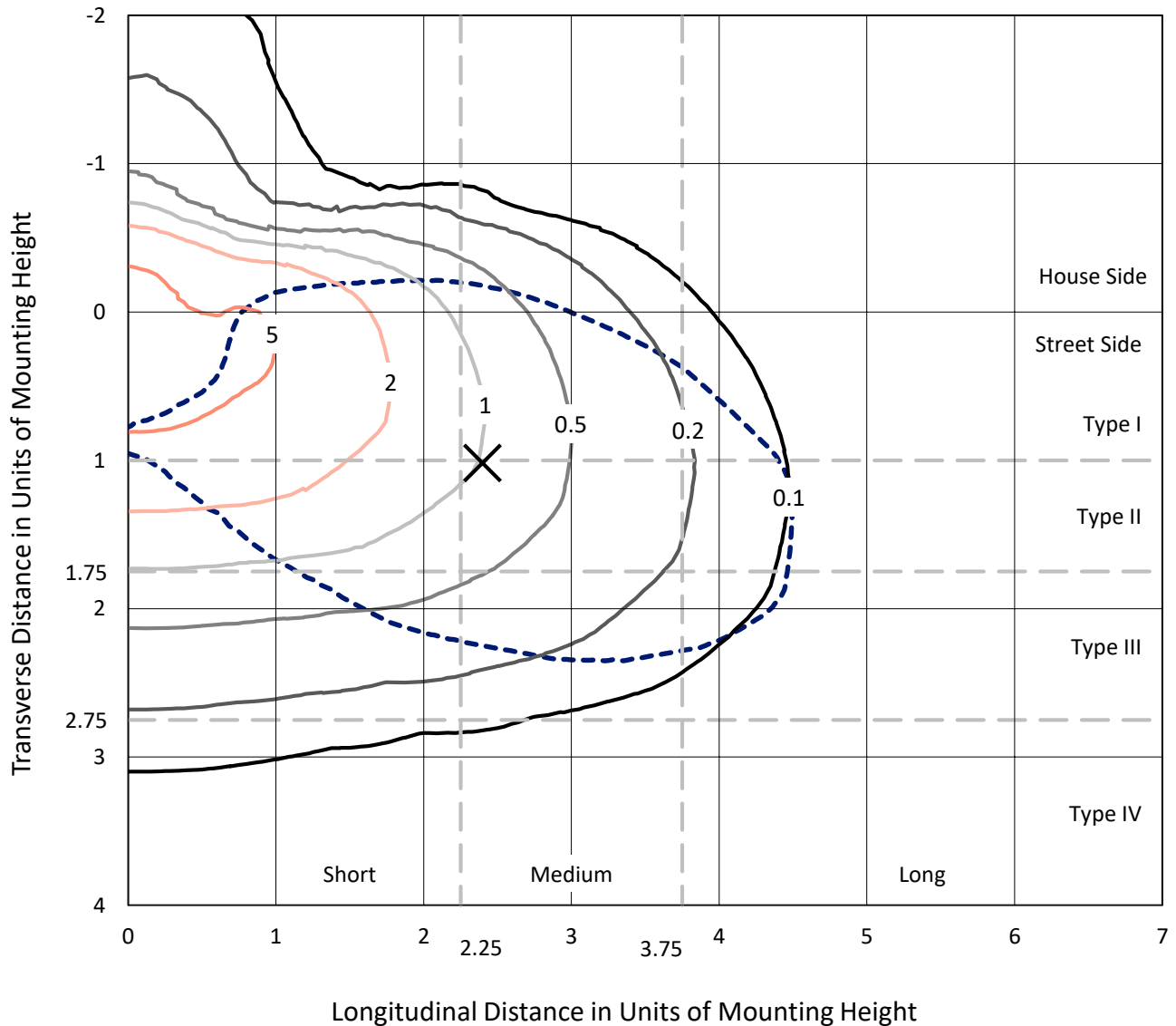


REPORT NUMBER: P233530

CATALOG NUMBER: VERD-C02H-D-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

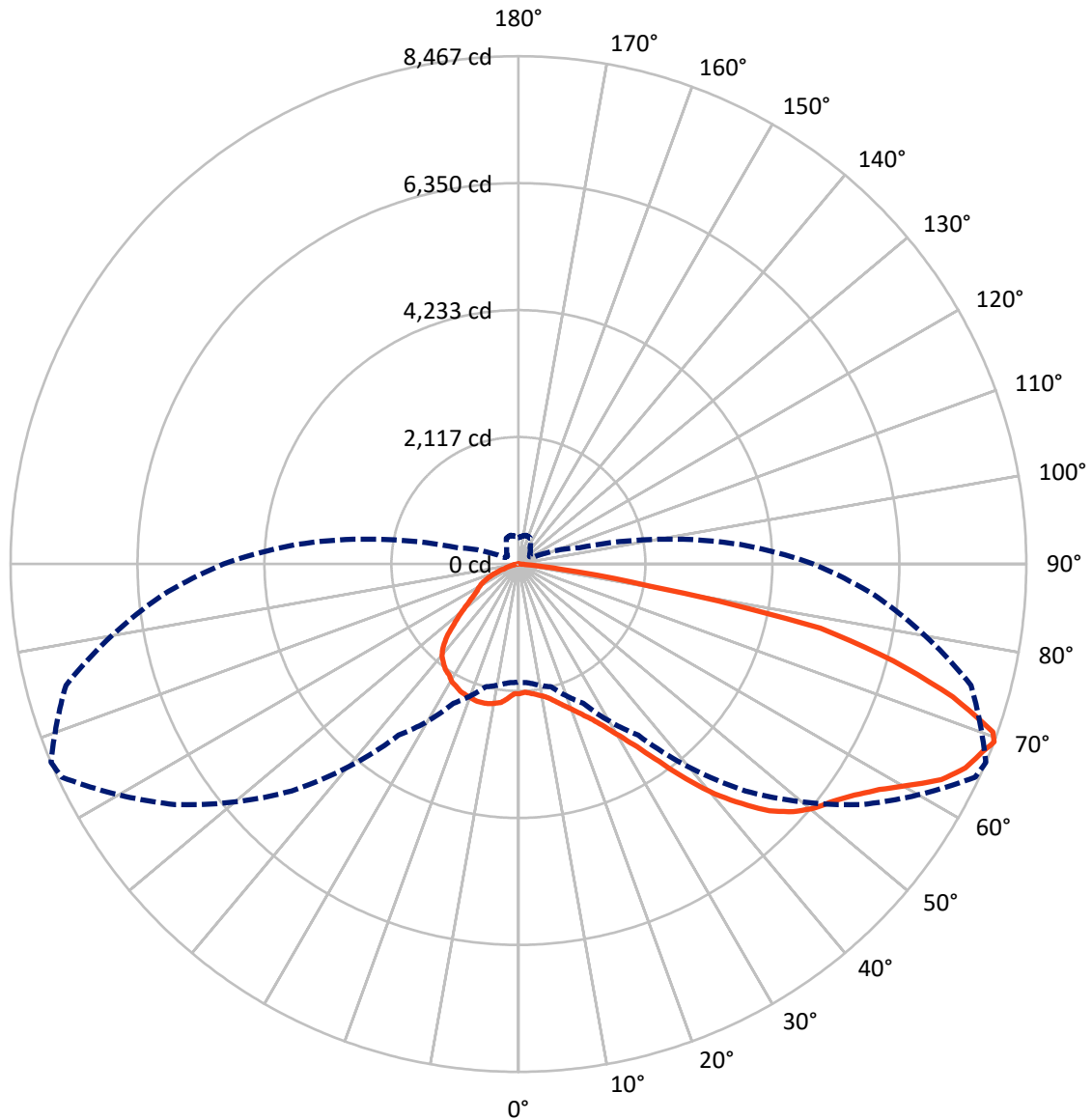


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233530

CATALOG NUMBER: VERD-C02H-D-U-T3-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233530

CATALOG NUMBER: VERD-C02H-D-U-T3-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3253.3	0.0	3253.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	11193.7	0.0	11193.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	14447.0	0.0	14447.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	1.5
10°-20°	697.5	4.8
20°-30°	1201.7	8.3
30°-40°	1787.3	12.4
40°-50°	2461.6	17.0
50°-60°	2942.6	20.4
60°-70°	3105.3	21.5
70°-80°	1860.9	12.9
80°-90°	171.2	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°	14447.0	100.0
0°-180°	14447.0	100.0



REPORT NUMBER: P233530

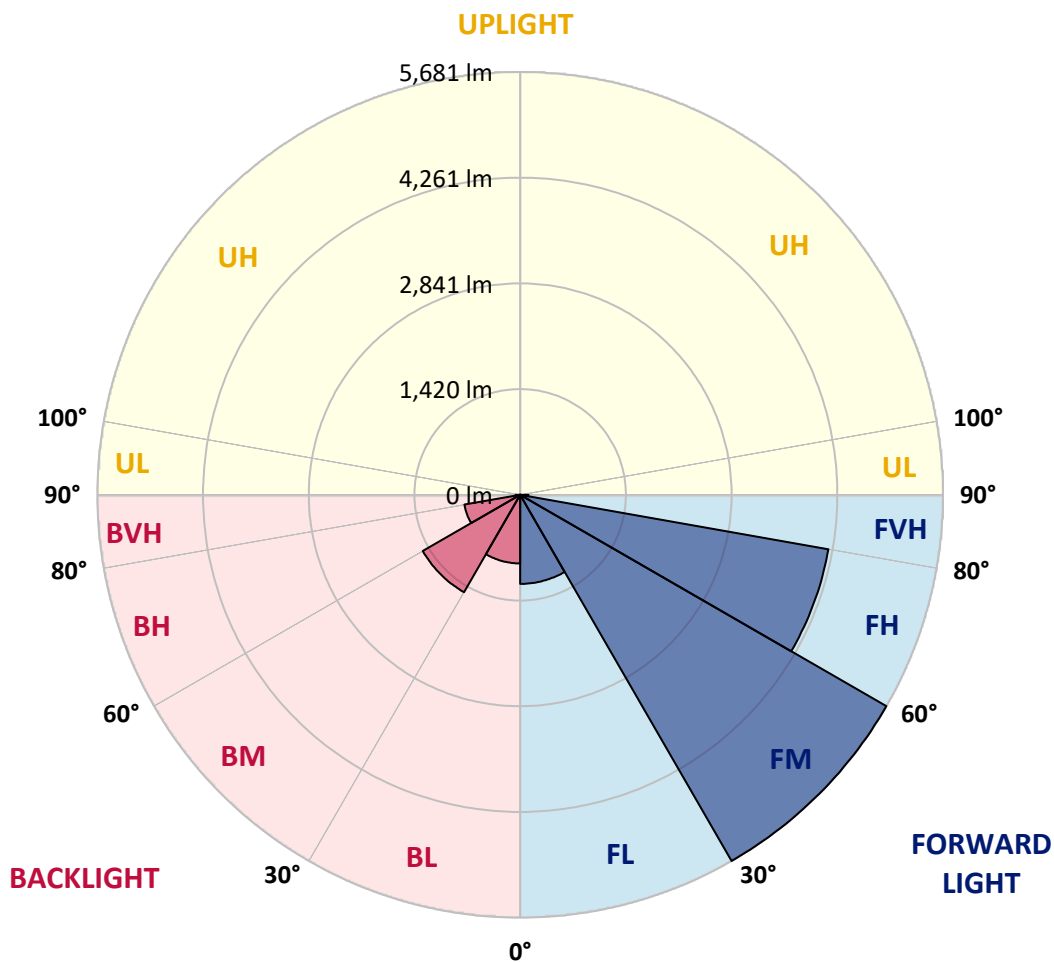
CATALOG NUMBER: VERD-C02H-D-U-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.3	8.3			
FM (30°-60°)	5681.2	39.3			
FH (60°-80°)	4205.5	29.1			G2/5000
FVH (80°-90°)	110.7	0.8			G2/225
BL (0°-30°)	921.8	6.4	B2/1000		
BM (30°-60°)	1510.3	10.5	B2/2500		
BH (60°-80°)	760.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	60.5	0.4			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: P233530

CATALOG NUMBER: VERD-C02H-D-U-T3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0
2.5°	2196.4	2195.1	2188.6	2164.9	2162.3	2159.7	2143.9	2145.2	2141.3	2145.2	2146.5
5°	2256.9	2251.6	2245.0	2220.1	2210.9	2199.1	2175.4	2174.1	2164.9	2167.5	2170.2
7.5°	2331.7	2326.5	2321.2	2292.3	2283.1	2262.1	2225.3	2207.0	2199.1	2201.7	2205.6
10°	2432.9	2423.7	2415.8	2373.8	2359.3	2323.9	2279.2	2247.7	2237.2	2241.1	2251.6
12.5°	2548.5	2536.7	2523.5	2480.2	2460.5	2405.3	2352.8	2312.0	2296.3	2305.5	2313.4
15°	2668.0	2661.5	2656.2	2605.0	2577.4	2517.0	2451.3	2400.1	2385.6	2393.5	2397.4
17.5°	2825.7	2821.7	2812.5	2760.0	2707.5	2637.8	2552.4	2498.6	2484.1	2488.1	2478.9
20°	2997.8	2987.3	2982.0	2922.9	2867.7	2771.8	2673.3	2597.1	2593.2	2594.5	2565.6
22.5°	3190.9	3179.1	3168.6	3114.7	3046.4	2934.7	2806.0	2720.6	2723.2	2725.8	2661.5
25°	3387.9	3378.7	3369.5	3318.3	3250.0	3127.8	2972.8	2876.9	2875.6	2876.9	2787.6
27.5°	3594.2	3583.7	3582.4	3540.3	3472.0	3347.2	3168.6	3071.3	3071.3	3066.1	2930.8
30°	3778.1	3788.6	3788.6	3765.0	3700.6	3575.8	3407.6	3310.4	3323.6	3313.1	3141.0
32.5°	3979.1	3976.5	3994.8	3976.5	3923.9	3808.3	3667.7	3606.0	3628.3	3662.5	3490.4
35°	4096.0	4114.4	4160.4	4186.6	4161.7	4067.1	3964.6	4011.9	4042.1	4195.8	3989.6
37.5°	4231.3	4247.1	4310.1	4374.5	4385.0	4333.8	4333.8	4488.8	4547.9	4748.9	4508.5
40°	4324.6	4340.3	4408.6	4483.5	4586.0	4621.5	4713.4	4953.8	5037.9	5173.2	4894.7
42.5°	4269.4	4277.3	4424.4	4607.0	4758.1	4928.9	5074.7	5379.4	5459.6	5554.2	5212.6
45°	4172.2	4186.6	4349.5	4643.8	4903.9	5242.8	5426.7	5780.1	5872.1	5862.9	5457.0
47.5°	4064.5	4086.8	4268.1	4596.5	5028.7	5514.8	5748.6	6116.4	6169.0	6103.3	5626.4
50°	3944.9	3983.0	4176.1	4549.2	5119.3	5752.5	5987.7	6368.6	6396.2	6262.2	5774.9
52.5°	3808.3	3833.3	4047.4	4458.6	5182.4	5910.2	6178.2	6556.5	6568.3	6459.3	5931.2
55°	3619.1	3641.5	3879.2	4337.7	5191.6	6003.4	6300.3	6757.5	6796.9	6690.5	6073.1
57.5°	3415.5	3443.1	3687.4	4163.0	5107.5	6041.5	6447.5	7016.3	7092.5	6940.1	6187.3
60°	3179.1	3214.5	3461.5	3950.2	4942.0	6100.6	6722.0	7393.3	7487.9	7222.5	6296.4
62.5°	2933.4	2953.1	3180.4	3655.9	4684.5	6130.9	6971.6	7824.2	7914.8	7489.2	6347.6
65°	2587.9	2619.4	2821.7	3302.5	4321.9	6000.8	7088.5	8125.0	8190.7	7705.9	6297.7
67.5°	2221.4	2221.4	2393.5	2879.5	3838.5	5656.6	7041.2	8269.5	8348.3	7858.3	6140.1
69°	1967.9	1987.6	2118.9	2561.6	3483.8	5350.5	6990.0	8402.2	8466.5	7809.7	5958.8
70°	1773.4	1790.5	1923.2	2330.4	3219.8	5108.8	6879.6	8343.1	8390.4	7660.0	5768.3
72.5°	1304.5	1318.9	1410.9	1623.7	2421.1	4122.3	6203.1	7543.0	7571.9	6888.8	5089.1
75°	889.3	897.2	966.9	1096.9	1412.2	2882.2	5068.1	6371.3	6456.6	5974.5	4166.9
77.5°	307.4	331.0	373.1	504.4	604.3	1132.4	3435.2	5020.8	5148.2	4626.7	2915.0
80°	105.1	103.8	199.7	258.8	317.9	520.2	1086.4	2104.5	2224.0	1907.4	1049.6
82.5°	78.8	81.4	132.7	143.2	97.2	191.8	423.0	643.7	705.4	616.1	434.8
85°	49.9	48.6	59.1	61.7	44.7	81.4	102.5	103.8	107.7	93.3	94.6
87.5°	27.6	27.6	26.3	22.3	11.8	10.5	9.2	9.2	7.9	7.9	7.9
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: P233530

CATALOG NUMBER: VERD-C02H-D-U-T3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0	2161.0
2.5°	2140.0	2158.3	2162.3	2167.5	2180.7	2197.8	2221.4	2221.4	2230.6	2258.2	2267.4
5°	2170.2	2192.5	2221.4	2251.6	2287.1	2325.2	2363.3	2376.4	2394.8	2431.6	2439.5
7.5°	2216.1	2241.1	2291.0	2331.7	2362.0	2400.1	2431.6	2436.8	2460.5	2494.6	2501.2
10°	2263.4	2285.8	2335.7	2356.7	2397.4	2439.5	2455.2	2463.1	2482.8	2509.1	2505.2
12.5°	2327.8	2334.4	2369.8	2384.3	2404.0	2430.3	2438.2	2438.2	2450.0	2492.0	2493.3
15°	2390.9	2390.9	2396.1	2388.2	2390.9	2404.0	2405.3	2388.2	2401.4	2422.4	2414.5
17.5°	2457.9	2439.5	2415.8	2381.7	2351.5	2350.1	2322.6	2281.8	2270.0	2300.2	2298.9
20°	2520.9	2489.4	2432.9	2355.4	2313.4	2256.9	2187.2	2163.6	2162.3	2167.5	2163.6
22.5°	2603.7	2539.3	2436.8	2330.4	2214.8	2125.5	2067.7	1987.6	1984.9	1973.1	1954.7
25°	2702.2	2610.2	2453.9	2302.8	2134.7	2019.1	1879.8	1794.5	1745.9	1756.4	1724.8
27.5°	2829.6	2718.0	2460.5	2242.4	2024.4	1828.6	1660.5	1550.1	1508.1	1489.7	1468.7
30°	3004.3	2832.3	2507.8	2191.2	1887.7	1628.9	1422.7	1262.4	1202.0	1217.8	1220.4
32.5°	3284.2	3049.0	2532.7	2090.0	1730.1	1410.9	1142.9	969.5	934.0	978.7	990.5
35°	3771.5	3385.3	2591.9	2029.6	1550.1	1156.0	849.9	779.0	786.9	825.0	827.6
37.5°	4251.0	3810.9	2774.5	1898.2	1334.7	856.5	659.5	621.4	659.5	708.1	714.6
40°	4587.3	4143.3	2936.0	1768.2	1032.5	620.0	503.1	457.2	512.3	589.8	604.3
42.5°	4885.5	4407.3	3050.3	1588.2	706.7	442.7	361.3	373.1	454.5	511.0	524.2
45°	5099.6	4588.6	3129.1	1354.4	450.6	335.0	323.2	361.3	438.8	483.4	487.4
47.5°	5234.9	4695.0	3071.3	1066.7	338.9	316.6	317.9	366.5	444.0	493.9	492.6
50°	5357.1	4751.5	2883.5	846.0	321.8	303.5	324.5	381.0	461.1	507.1	504.4
52.5°	5487.2	4806.7	2654.9	663.4	308.7	296.9	332.4	390.2	461.1	490.0	486.1
55°	5598.8	4855.3	2482.8	533.3	299.5	295.6	340.2	404.6	458.5	470.3	462.4
57.5°	5656.6	4772.5	2296.3	448.0	290.3	295.6	345.5	402.0	474.2	512.3	504.4
60°	5625.1	4695.0	2145.2	416.4	277.2	294.3	348.1	430.9	582.0	617.4	614.8
62.5°	5567.3	4609.6	1933.7	374.4	262.7	296.9	346.8	457.2	670.0	658.1	625.3
65°	5449.1	4438.9	1644.7	325.8	248.3	302.1	346.8	515.0	584.6	571.4	557.0
67.5°	5196.8	4069.7	1316.3	279.8	232.5	286.4	341.6	490.0	503.1	469.0	451.9
69°	4914.4	3717.7	1041.7	254.9	223.3	278.5	340.2	472.9	495.3	458.5	438.8
70°	4693.7	3443.1	842.1	236.5	214.1	275.9	338.9	461.1	491.3	450.6	429.6
72.5°	3909.5	2782.3	441.4	190.5	182.6	250.9	327.1	450.6	492.6	432.2	402.0
75°	3071.3	1979.7	292.9	145.8	140.6	219.4	299.5	433.5	463.7	388.8	342.9
77.5°	1894.3	867.0	202.3	101.2	102.5	170.8	257.5	387.5	467.7	392.8	333.7
80°	550.4	335.0	128.7	68.3	63.1	101.2	202.3	333.7	444.0	403.3	363.9
82.5°	317.9	218.1	86.7	43.4	38.1	46.0	127.4	258.8	391.5	369.1	377.0
85°	72.3	60.4	31.5	21.0	21.0	26.3	43.4	149.8	270.6	316.6	357.3
87.5°	7.9	7.9	7.9	7.9	7.9	6.6	7.9	40.7	118.2	168.1	195.7
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)