

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: P233529

Luminaire Tested: **VERD-C02H8-D-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233529
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-C02H8-D-U-T3-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 960mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13562 lumens
Efficiency: N/A
Efficacy: 123.3 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

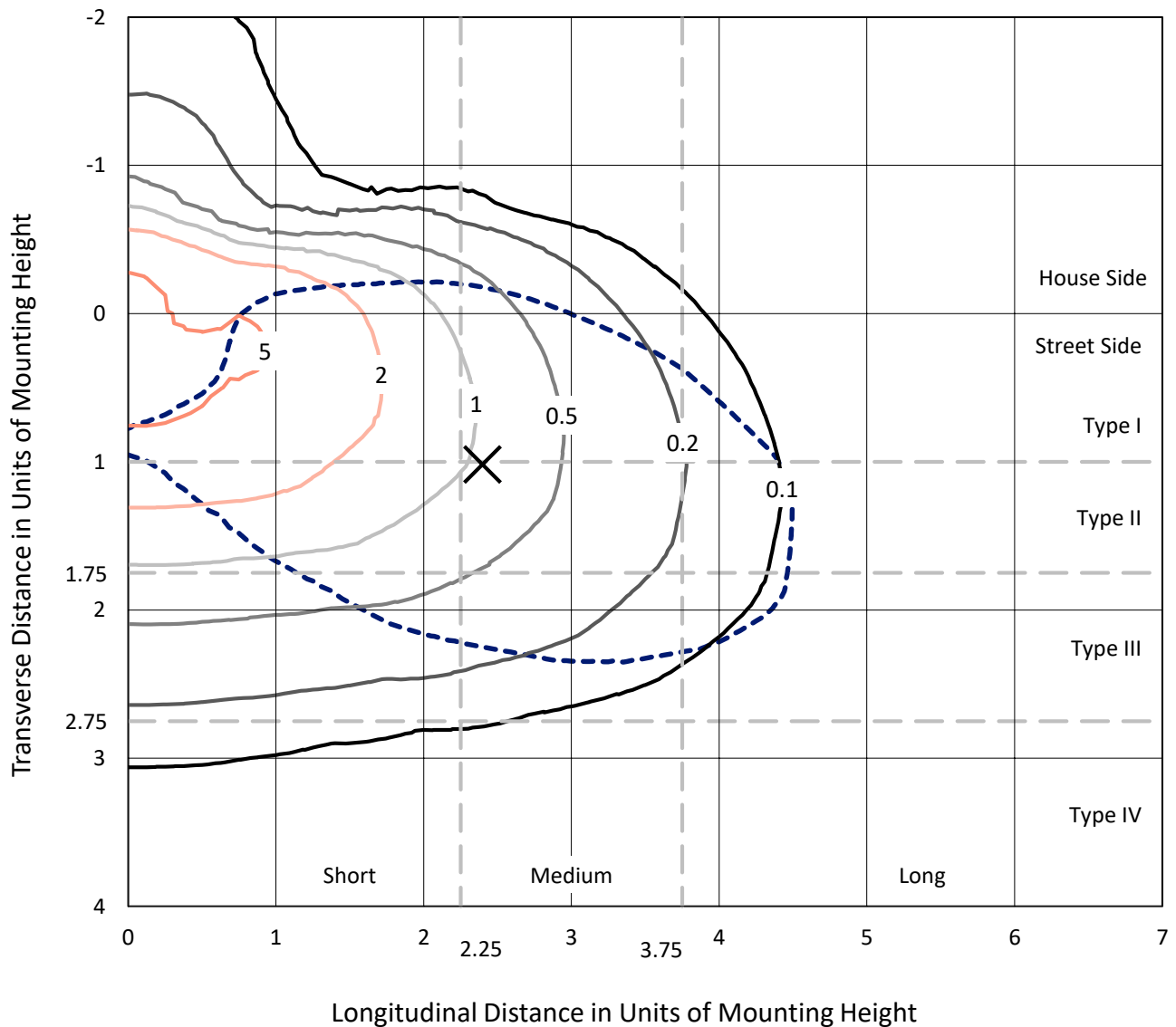
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233529
 CATALOG NUMBER: VERD-C02H8-D-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

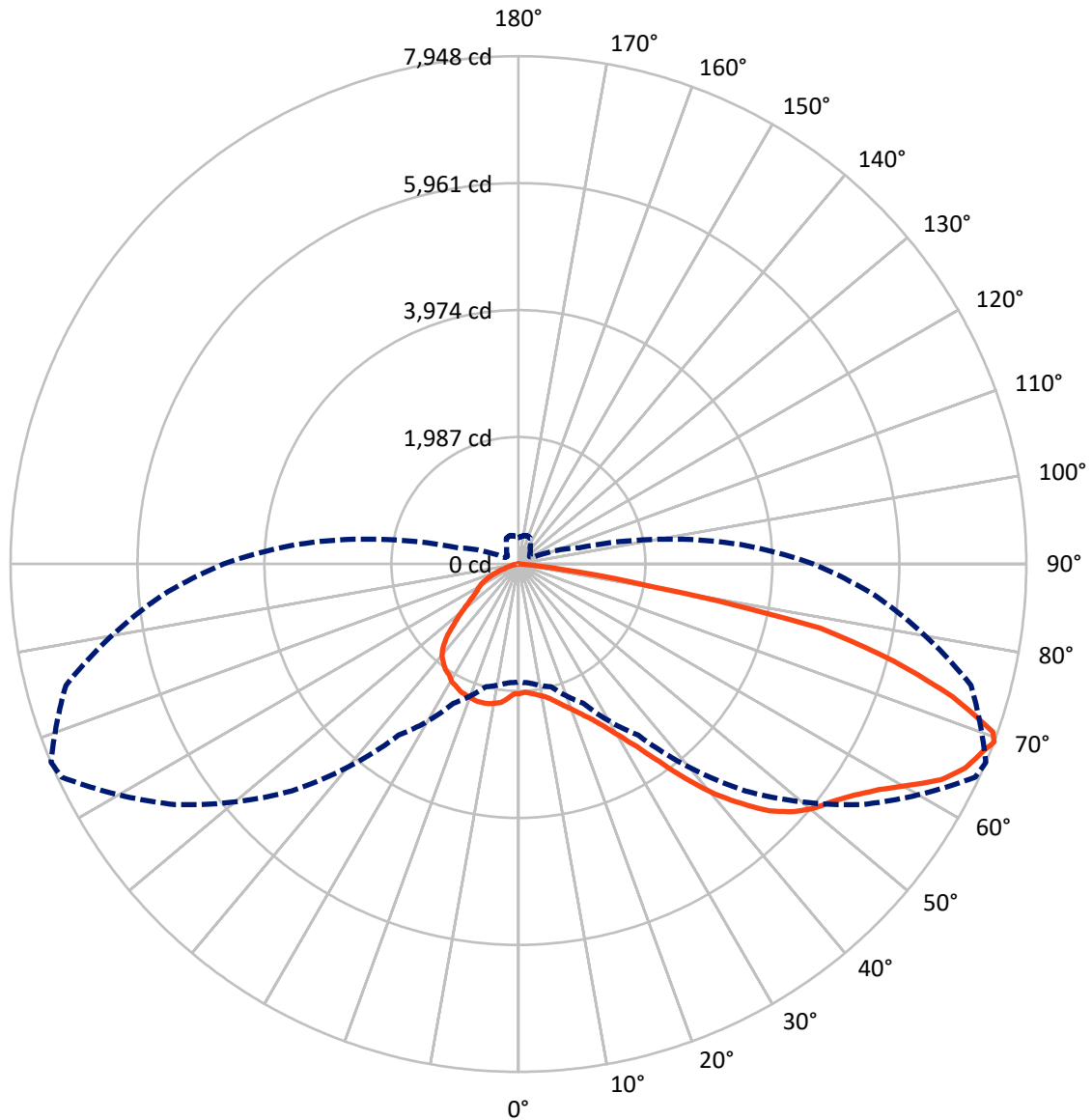
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233529
CATALOG NUMBER: VERD-C02H8-D-U-T3-7030

Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3054.0	0.0	3054.0
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10508.0	0.0	10508.0
	% Fixture	77.5	0.0	77.5
Total	Lumens	13562.0	0.0	13562.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	1.5
10°-20°	654.8	4.8
20°-30°	1128.1	8.3
30°-40°	1677.9	12.4
40°-50°	2310.8	17.0
50°-60°	2762.4	20.4
60°-70°	2915.1	21.5
70°-80°	1746.9	12.9
80°-90°	160.7	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°	13562.0	100.0
0°-180°	13562.0	100.0



REPORT NUMBER: P233529

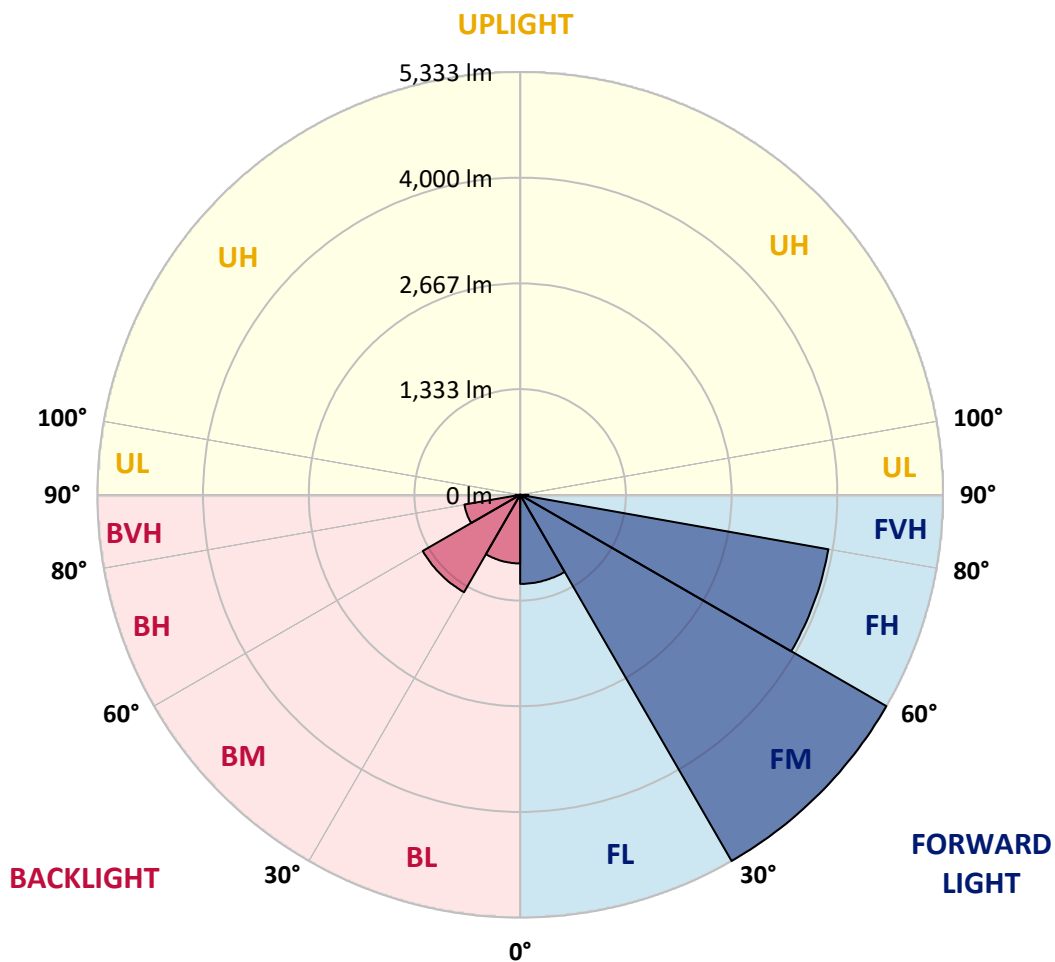
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1123.0	8.3			
FM	(30°-60°)	5333.2	39.3			
FH	(60°-80°)	3947.9	29.1			G2/5000
FVH	(80°-90°)	103.9	0.8			G2/225
BL	(0°-30°)	865.4	6.4	B2/1000		
BM	(30°-60°)	1417.8	10.5	B2/2500		
BH	(60°-80°)	714.1	5.3	B2/1000		G2/1000
BVH	(80°-90°)	56.8	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: P233529

CATALOG NUMBER: VERD-C02H8-D-U-T3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6
2.5°	2061.9	2060.7	2054.5	2032.3	2029.8	2027.4	2012.6	2013.8	2010.1	2013.8	2015.0
5°	2118.6	2113.7	2107.5	2084.1	2075.5	2064.4	2042.2	2040.9	2032.3	2034.8	2037.2
7.5°	2188.9	2184.0	2179.0	2151.9	2143.3	2123.6	2089.0	2071.8	2064.4	2066.8	2070.5
10°	2283.9	2275.2	2267.8	2228.4	2214.8	2181.5	2139.6	2110.0	2100.1	2103.8	2113.7
12.5°	2392.4	2381.3	2369.0	2328.3	2309.8	2258.0	2208.6	2170.4	2155.6	2164.2	2171.6
15°	2504.6	2498.4	2493.5	2445.4	2419.5	2362.8	2301.1	2253.0	2239.5	2246.9	2250.6
17.5°	2652.6	2648.9	2640.3	2590.9	2541.6	2476.2	2396.1	2345.5	2332.0	2335.7	2327.0
20°	2814.1	2804.3	2799.3	2743.8	2692.1	2602.0	2509.5	2438.0	2434.3	2435.5	2408.4
22.5°	2995.4	2984.3	2974.5	2923.9	2859.8	2754.9	2634.1	2553.9	2556.4	2558.9	2498.4
25°	3180.4	3171.8	3163.1	3115.0	3050.9	2936.2	2790.7	2700.7	2699.5	2700.7	2616.8
27.5°	3374.0	3364.1	3362.9	3323.4	3259.3	3142.2	2974.5	2883.2	2883.2	2878.3	2751.2
30°	3546.7	3556.5	3556.5	3534.3	3473.9	3356.7	3198.9	3107.6	3120.0	3110.1	2948.6
32.5°	3735.3	3732.9	3750.1	3732.9	3683.5	3575.0	3443.1	3385.1	3406.1	3438.1	3276.6
35°	3845.1	3862.3	3905.5	3930.2	3906.7	3818.0	3721.8	3766.2	3794.5	3938.8	3745.2
37.5°	3972.1	3986.9	4046.1	4106.5	4116.4	4068.3	4068.3	4213.8	4269.3	4458.0	4232.3
40°	4059.7	4074.5	4138.6	4208.9	4305.1	4338.4	4424.7	4650.4	4729.3	4856.3	4594.9
42.5°	4007.9	4015.3	4153.4	4324.8	4466.6	4626.9	4763.8	5049.9	5125.1	5213.9	4893.3
45°	3916.6	3930.2	4083.1	4359.3	4603.5	4921.7	5094.3	5426.0	5512.4	5503.7	5122.7
47.5°	3815.5	3836.5	4006.6	4314.9	4720.6	5176.9	5396.4	5741.7	5791.1	5729.4	5281.7
50°	3703.3	3739.0	3920.3	4270.5	4805.7	5400.1	5620.9	5978.5	6004.4	5878.6	5421.1
52.5°	3575.0	3598.4	3799.5	4185.4	4864.9	5548.1	5799.7	6154.8	6165.9	6063.6	5567.8
55°	3397.4	3418.4	3641.6	4072.0	4873.6	5635.7	5914.4	6343.5	6380.5	6280.6	5701.0
57.5°	3206.3	3232.2	3461.6	3908.0	4794.6	5671.4	6052.5	6586.5	6658.0	6514.9	5808.3
60°	2984.3	3017.6	3249.5	3708.2	4639.3	5726.9	6310.2	6940.4	7029.2	6780.1	5910.7
62.5°	2753.7	2772.2	2985.6	3432.0	4397.6	5755.3	6544.5	7344.9	7430.0	7030.4	5958.8
65°	2429.4	2459.0	2648.9	3100.2	4057.2	5633.2	6654.3	7627.3	7688.9	7233.9	5911.9
67.5°	2085.3	2085.3	2246.9	2703.2	3603.4	5310.1	6609.9	7762.9	7836.9	7376.9	5763.9
69°	1847.3	1865.8	1989.1	2404.7	3270.4	5022.8	6561.8	7887.5	7947.9	7331.3	5593.7
70°	1664.8	1680.8	1805.4	2187.7	3022.5	4795.9	6458.2	7832.0	7876.4	7190.7	5414.9
72.5°	1224.6	1238.1	1324.4	1524.2	2272.8	3869.7	5823.1	7081.0	7108.1	6466.8	4777.4
75°	834.9	842.3	907.6	1029.7	1325.7	2705.6	4757.6	5981.0	6061.1	5608.5	3911.7
77.5°	288.6	310.8	350.2	473.5	567.3	1063.0	3224.8	4713.2	4832.9	4343.3	2736.4
80°	98.7	97.4	187.4	242.9	298.4	488.3	1019.8	1975.6	2087.8	1790.6	985.3
82.5°	74.0	76.5	124.6	134.4	91.3	180.0	397.1	604.3	662.2	578.4	408.2
85°	46.9	45.6	55.5	58.0	41.9	76.5	96.2	97.4	101.1	87.6	88.8
87.5°	25.9	25.9	24.7	21.0	11.1	9.9	8.6	8.6	7.4	7.4	7.4
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: P233529

CATALOG NUMBER: VERD-C02H8-D-U-T3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6	2028.6
2.5°	2008.9	2026.1	2029.8	2034.8	2047.1	2063.1	2085.3	2085.3	2094.0	2119.9	2128.5
5°	2037.2	2058.2	2085.3	2113.7	2147.0	2182.7	2218.5	2230.8	2248.1	2282.6	2290.0
7.5°	2080.4	2103.8	2150.7	2188.9	2217.3	2253.0	2282.6	2287.6	2309.8	2341.8	2348.0
10°	2124.8	2145.7	2192.6	2212.3	2250.6	2290.0	2304.8	2312.2	2330.7	2355.4	2351.7
12.5°	2185.2	2191.4	2224.7	2238.2	2256.7	2281.4	2288.8	2288.8	2299.9	2339.4	2340.6
15°	2244.4	2244.4	2249.3	2241.9	2244.4	2256.7	2258.0	2241.9	2254.3	2274.0	2266.6
17.5°	2307.3	2290.0	2267.8	2235.8	2207.4	2206.2	2180.3	2142.0	2131.0	2159.3	2158.1
20°	2366.5	2336.9	2283.9	2211.1	2171.6	2118.6	2053.3	2031.1	2029.8	2034.8	2031.1
22.5°	2444.2	2383.8	2287.6	2187.7	2079.2	1995.3	1941.0	1865.8	1863.3	1852.2	1835.0
25°	2536.7	2450.3	2303.6	2161.8	2003.9	1895.4	1764.7	1684.5	1638.9	1648.8	1619.2
27.5°	2656.3	2551.5	2309.8	2105.1	1900.3	1716.6	1558.8	1455.2	1415.7	1398.4	1378.7
30°	2820.3	2658.8	2354.2	2057.0	1772.1	1529.2	1335.5	1185.1	1128.4	1143.2	1145.6
32.5°	3083.0	2862.2	2377.6	1962.0	1624.1	1324.4	1072.9	910.1	876.8	918.7	929.8
35°	3540.5	3177.9	2433.1	1905.3	1455.2	1085.2	797.9	731.3	738.7	774.4	776.9
37.5°	3990.6	3577.5	2604.5	1782.0	1252.9	804.0	619.1	583.3	619.1	664.7	670.9
40°	4306.3	3889.5	2756.2	1659.9	969.3	582.1	472.3	429.1	480.9	553.7	567.3
42.5°	4586.2	4137.3	2863.5	1490.9	663.5	415.6	339.1	350.2	426.7	479.7	492.0
45°	4787.2	4307.5	2937.5	1271.4	423.0	314.5	303.4	339.1	411.9	453.8	457.5
47.5°	4914.3	4407.4	2883.2	1001.3	318.2	297.2	298.4	344.1	416.8	463.7	462.4
50°	5028.9	4460.4	2706.8	794.2	302.1	284.9	304.6	357.6	432.8	476.0	473.5
52.5°	5151.0	4512.2	2492.3	622.8	289.8	278.7	312.0	366.3	432.8	460.0	456.3
55°	5255.9	4557.9	2330.7	500.7	281.2	277.5	319.4	379.8	430.4	441.5	434.1
57.5°	5310.1	4480.2	2155.6	420.5	272.5	277.5	324.3	377.4	445.2	480.9	473.5
60°	5280.5	4407.4	2013.8	390.9	260.2	276.2	326.8	404.5	546.3	579.6	577.1
62.5°	5226.3	4327.3	1815.3	351.5	246.6	278.7	325.6	429.1	628.9	617.8	587.0
65°	5115.3	4166.9	1544.0	305.8	233.1	283.6	325.6	483.4	548.8	536.4	522.9
67.5°	4878.5	3820.4	1235.7	262.7	218.3	268.8	320.6	460.0	472.3	440.2	424.2
69°	4613.4	3489.9	977.9	239.2	209.6	261.4	319.4	443.9	464.9	430.4	411.9
70°	4406.2	3232.2	790.5	222.0	201.0	259.0	318.2	432.8	461.2	423.0	403.3
72.5°	3670.0	2611.9	414.4	178.8	171.4	235.5	307.1	423.0	462.4	405.7	377.4
75°	2883.2	1858.4	275.0	136.9	132.0	205.9	281.2	407.0	435.3	365.0	321.9
77.5°	1778.3	813.9	189.9	95.0	96.2	160.3	241.7	363.8	439.0	368.7	313.2
80°	516.7	314.5	120.9	64.1	59.2	95.0	189.9	313.2	416.8	378.6	341.6
82.5°	298.4	204.7	81.4	40.7	35.8	43.2	119.6	242.9	367.5	346.5	353.9
85°	67.8	56.7	29.6	19.7	19.7	24.7	40.7	140.6	254.0	297.2	335.4
87.5°	7.4	7.4	7.4	7.4	7.4	6.2	7.4	38.2	111.0	157.8	183.7
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)