

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: P233465

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
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-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13098 lumens
Efficiency: N/A
Efficacy: 109.2 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): 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

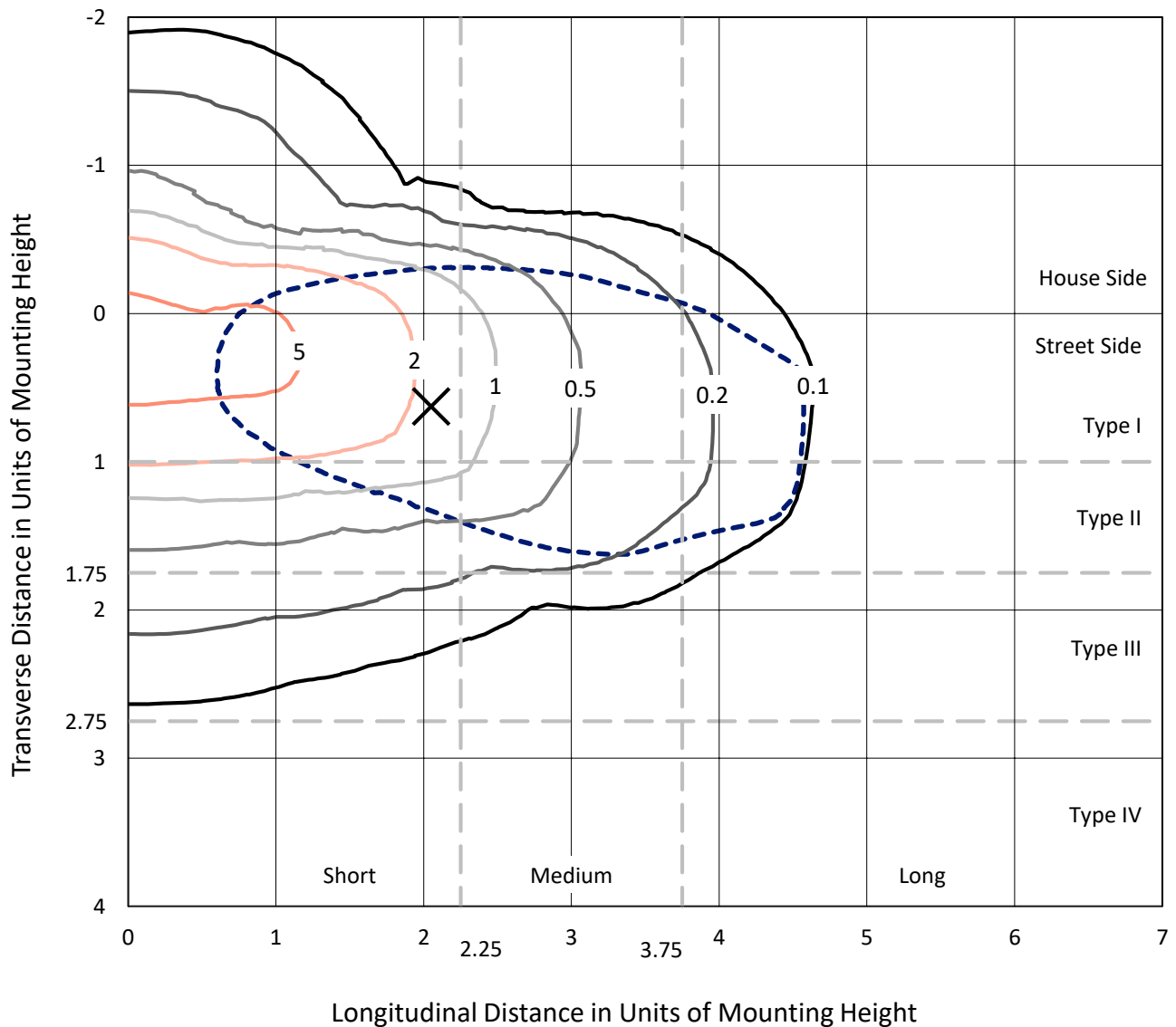


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

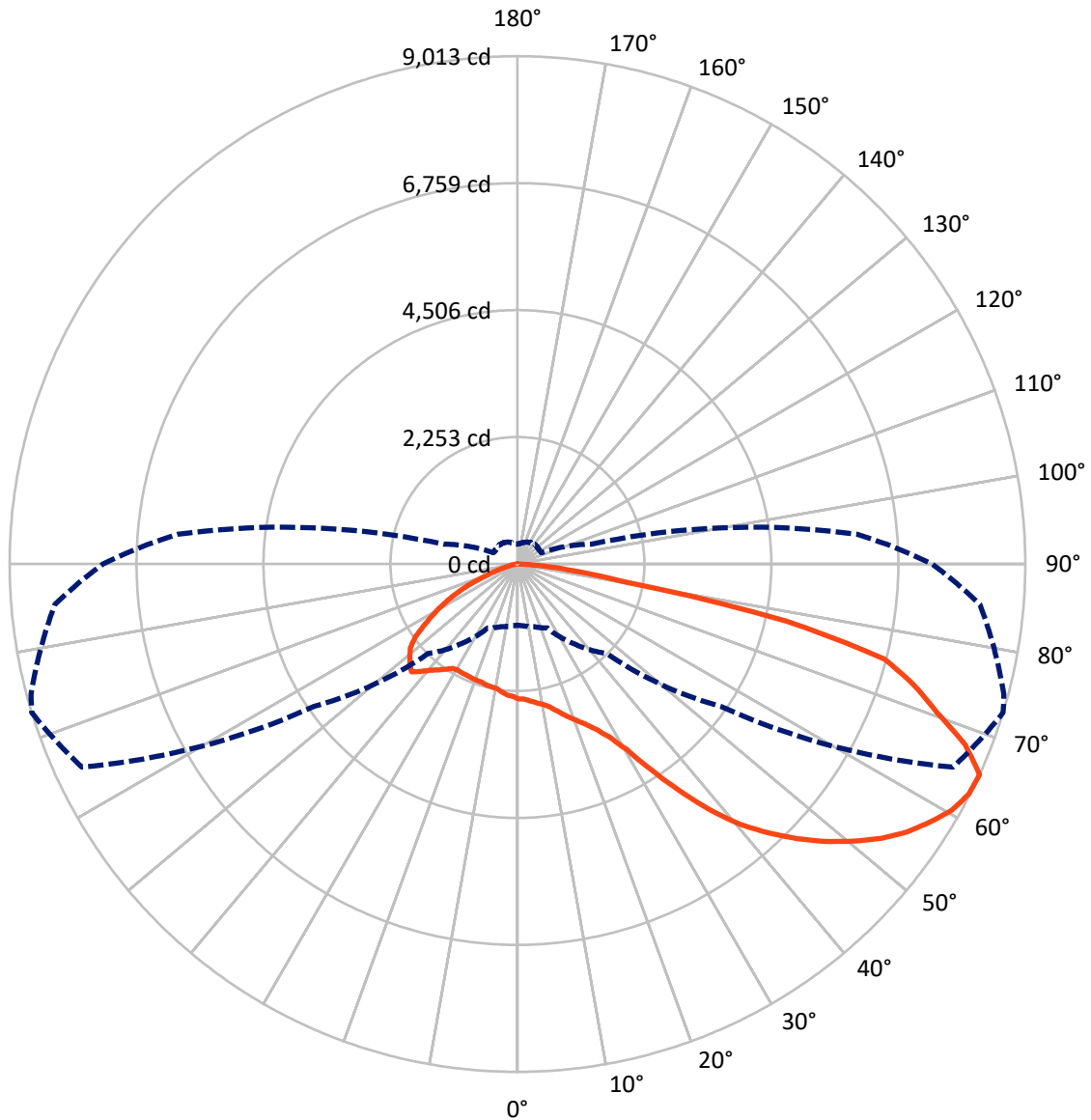


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3357.6	0.0	3357.6
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	9740.4	0.0	9740.4
	% Fixture	74.4	0.0	74.4
Total	Lumens	13098.0	0.0	13098.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	1.7
10°-20°	691.0	5.3
20°-30°	1159.1	8.8
30°-40°	1699.9	13.0
40°-50°	2297.4	17.5
50°-60°	2661.4	20.3
60°-70°	2599.7	19.8
70°-80°	1561.1	11.9
80°-90°	199.9	1.5
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°	13098.0	100.0
0°-180°	13098.0	100.0



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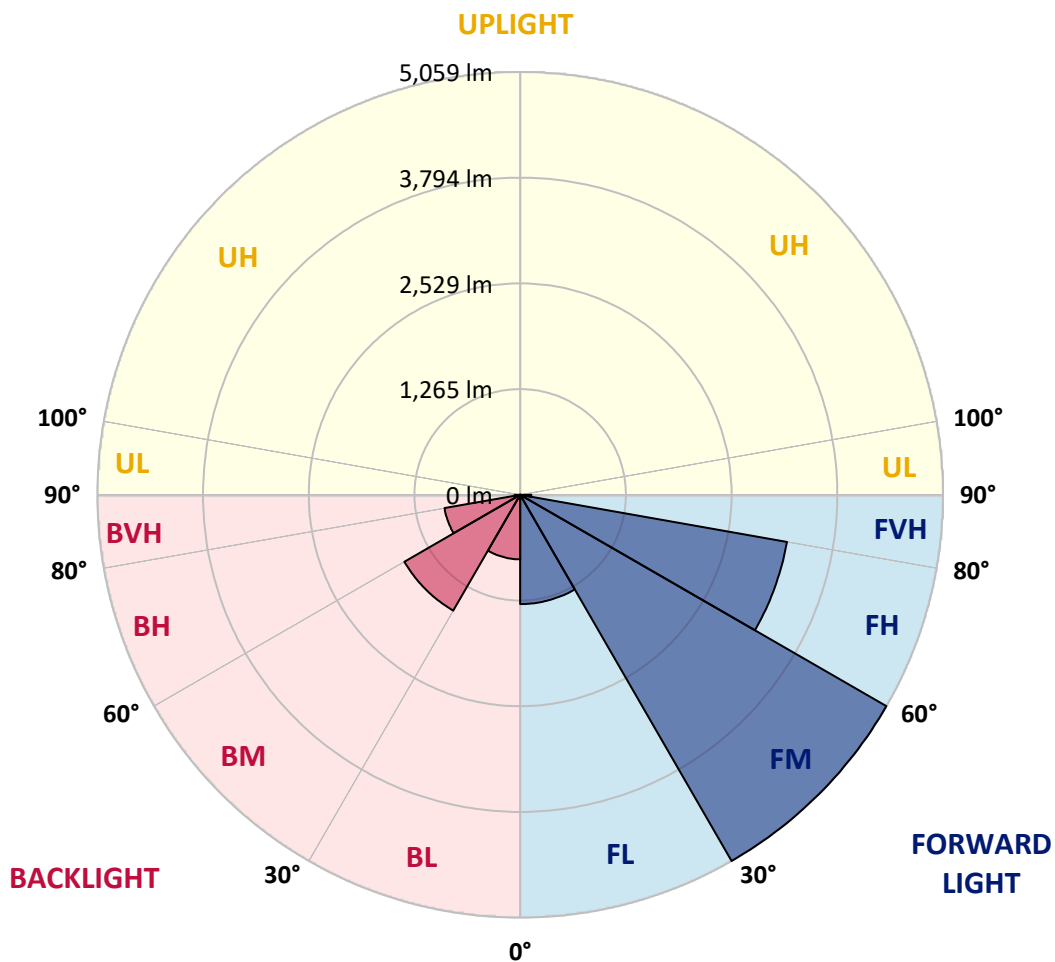
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1306.9	10.0			
FM	(30°-60°)	5058.9	38.6			
FH	(60°-80°)	3241.5	24.7			G2/5000
FVH	(80°-90°)	133.1	1.0			G2/225
BL	(0°-30°)	771.7	5.9	B2/1000		
BM	(30°-60°)	1599.7	12.2	B2/2500		
BH	(60°-80°)	919.3	7.0	B2/1000		G2/1000
BVH	(80°-90°)	66.8	0.5			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°	73°	75°	85°
0°	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0
2.5°	2542.4	2551.9	2541.2	2510.3	2494.8	2484.1	2452.0	2423.5	2400.9	2398.5	2377.1
5°	2639.9	2654.2	2636.4	2597.1	2581.7	2559.1	2523.4	2484.1	2443.7	2435.4	2392.6
7.5°	2763.6	2766.0	2756.5	2717.2	2685.1	2637.5	2575.7	2534.1	2487.7	2474.6	2406.9
10°	2868.2	2867.1	2855.2	2817.1	2785.0	2743.4	2656.6	2588.8	2534.1	2517.4	2423.5
12.5°	2968.1	2965.8	2953.9	2914.6	2874.2	2839.7	2774.3	2682.7	2609.0	2587.6	2471.1
15°	3091.8	3085.9	3066.8	3014.5	2982.4	2942.0	2894.4	2802.8	2718.4	2688.7	2540.0
17.5°	3186.9	3185.7	3171.5	3127.5	3089.4	3045.4	3001.4	2930.1	2838.5	2805.2	2607.8
20°	3241.6	3236.9	3233.3	3198.8	3189.3	3165.5	3102.5	3047.8	2956.2	2921.8	2683.9
22.5°	3299.9	3301.1	3302.3	3284.4	3311.8	3291.6	3245.2	3178.6	3085.9	3046.6	2790.9
25°	3313.0	3315.4	3339.2	3378.4	3411.7	3448.6	3415.3	3349.9	3250.0	3208.3	2937.2
27.5°	3276.1	3285.6	3357.0	3423.6	3541.3	3588.9	3582.9	3579.4	3477.1	3435.5	3138.2
30°	3309.4	3309.4	3358.2	3472.3	3621.0	3745.8	3773.2	3849.3	3818.4	3788.7	3475.9
32.5°	3209.5	3227.4	3314.2	3473.5	3709.0	3890.9	4014.6	4226.3	4348.7	4323.8	3953.9
35°	3021.6	3045.4	3172.7	3416.4	3753.0	4062.2	4283.3	4691.2	4927.9	4957.6	4529.5
37.5°	2876.6	2896.8	3056.1	3327.3	3769.6	4222.7	4593.7	5214.4	5520.1	5504.6	5017.0
40°	2699.4	2735.1	2895.6	3221.4	3730.4	4359.4	4930.2	5694.9	6070.6	5999.3	5480.8
42.5°	2540.0	2571.0	2705.3	3052.6	3675.7	4436.7	5234.7	6189.6	6519.0	6461.9	5919.6
45°	2371.2	2398.5	2523.4	2850.4	3548.4	4474.8	5520.1	6662.8	6949.4	6885.2	6326.3
47.5°	2177.3	2214.2	2362.9	2660.1	3361.7	4451.0	5728.2	7074.3	7358.5	7310.9	6662.8
50°	1688.6	1726.7	2115.5	2481.8	3102.5	4352.3	5914.9	7485.7	7728.3	7683.1	6960.1
52.5°	1532.8	1549.5	1670.8	2277.2	2832.6	4157.3	6031.4	7824.6	8088.6	8043.5	7240.8
55°	1437.7	1449.6	1517.4	1859.8	2603.1	3843.4	6045.7	8176.6	8391.9	8332.4	7539.2
57.5°	1340.2	1353.3	1428.2	1604.2	2372.4	3352.2	5894.6	8475.1	8638.0	8573.8	7824.6
60°	1258.1	1265.3	1339.0	1460.3	2111.9	2864.7	5505.8	8678.5	8865.2	8781.9	8104.1
62.5°	1183.2	1192.7	1246.2	1356.8	1893.1	2499.6	4963.5	8679.7	8990.0	8938.9	8245.6
65°	1085.7	1100.0	1152.3	1252.2	1716.0	2249.9	4402.3	8528.6	9012.6	8936.5	8238.5
67.5°	972.7	990.6	1038.1	1117.8	1480.5	1983.5	3619.8	8330.0	8571.4	8558.4	7898.4
70°	859.8	859.8	913.3	977.5	1228.4	1698.1	2859.9	7622.5	7898.4	7918.6	7288.3
72.5°	725.4	727.8	769.4	825.3	989.4	1393.7	2083.4	6516.6	7363.3	7118.3	6573.7
75°	608.8	606.5	649.3	695.7	805.1	1097.6	1359.2	4787.5	6729.4	6784.1	5785.2
77.5°	323.5	311.6	366.3	403.1	472.1	610.0	753.9	2400.9	4873.2	4980.2	4631.8
80°	91.6	92.8	242.6	271.1	310.4	302.0	349.6	915.7	1927.6	2172.6	2700.6
82.5°	54.7	63.0	137.9	161.7	121.3	78.5	133.2	509.0	997.7	1117.8	1340.2
85°	28.5	30.9	48.8	60.6	46.4	39.2	40.4	214.0	485.2	493.5	535.1
87.5°	13.1	13.1	17.8	19.0	11.9	7.1	4.8	3.6	3.6	2.4	2.4
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°	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0	2395.0
2.5°	2360.5	2372.4	2352.2	2336.7	2324.8	2317.7	2309.3	2289.1	2295.1	2303.4	2302.2
5°	2372.4	2378.3	2342.6	2293.9	2248.7	2216.6	2195.2	2163.1	2163.1	2176.2	2176.2
7.5°	2383.1	2374.7	2302.2	2220.2	2169.0	2142.9	2108.4	2073.9	2067.9	2077.5	2078.6
10°	2389.0	2353.3	2252.3	2176.2	2109.6	2056.1	2012.1	1972.8	1971.6	1984.7	1987.1
12.5°	2415.2	2346.2	2248.7	2144.0	2044.2	1987.1	1934.8	1890.8	1875.3	1876.5	1878.9
15°	2455.6	2374.7	2243.9	2100.0	1991.8	1915.7	1839.6	1783.7	1769.5	1788.5	1795.6
17.5°	2504.4	2421.1	2221.3	2059.6	1927.6	1836.1	1760.0	1710.0	1664.8	1644.6	1641.0
20°	2568.6	2460.4	2233.2	2000.2	1865.8	1743.3	1648.2	1587.5	1549.5	1547.1	1544.7
22.5°	2653.0	2504.4	2235.6	1960.9	1768.3	1641.0	1523.3	1488.8	1421.0	1396.1	1406.8
25°	2764.8	2571.0	2229.7	1919.3	1693.4	1522.1	1380.6	1317.6	1292.6	1264.1	1266.5
27.5°	2908.7	2676.8	2245.1	1864.6	1570.9	1377.0	1218.9	1151.1	1113.1	1089.3	1092.8
30°	3201.2	2837.3	2243.9	1812.3	1457.9	1227.2	1048.8	1003.6	965.6	944.2	954.9
32.5°	3617.4	3185.7	2293.9	1742.1	1329.5	1026.2	906.1	855.0	822.9	799.1	805.1
35°	4132.3	3565.1	2422.3	1647.0	1183.2	872.8	790.8	727.8	688.5	679.0	675.4
37.5°	4610.4	3900.4	2543.6	1584.0	1015.5	788.4	685.0	621.9	587.4	599.3	599.3
40°	5037.3	4345.2	2680.4	1482.9	863.3	692.1	567.2	538.7	520.9	541.1	548.2
42.5°	5359.5	4772.1	2865.9	1349.7	739.7	577.9	485.2	505.4	512.5	526.8	523.2
45°	5759.1	5015.9	3049.0	1226.0	631.4	481.6	468.5	510.1	526.8	539.9	533.9
47.5°	6126.5	5204.9	3012.1	997.7	531.6	466.1	476.9	510.1	538.7	560.1	556.5
50°	6442.8	5441.6	2942.0	775.3	510.1	480.4	485.2	497.1	539.9	554.1	554.1
52.5°	6640.2	5675.8	2855.2	626.7	525.6	498.3	489.9	488.7	517.3	528.0	518.5
55°	6878.1	5918.4	2630.4	581.5	531.6	510.1	503.0	492.3	500.6	492.3	497.1
57.5°	7142.1	6157.5	2285.6	568.4	528.0	506.6	544.6	487.6	482.8	453.1	445.9
60°	7374.0	6251.4	1983.5	538.7	509.0	497.1	506.6	481.6	457.8	418.6	403.1
62.5°	7460.8	6243.1	1676.7	507.8	480.4	482.8	481.6	463.8	442.4	403.1	393.6
65°	7356.1	6052.8	1359.2	470.9	457.8	467.3	455.4	429.3	393.6	361.5	353.2
67.5°	7001.8	5567.6	1009.6	422.2	421.0	438.8	430.5	394.8	355.6	330.6	330.6
70°	6323.9	4970.7	654.0	350.8	377.0	407.9	407.9	369.8	318.7	297.3	303.2
72.5°	5581.9	4277.4	423.3	260.4	297.3	369.8	367.4	341.3	293.7	266.4	267.6
75°	4835.1	3393.9	273.5	179.6	192.6	315.1	325.8	278.3	228.3	195.0	189.1
77.5°	3675.7	2553.1	173.6	104.6	122.5	192.6	247.3	231.9	233.1	284.2	281.8
80°	2260.6	1538.8	126.1	51.1	60.6	126.1	199.8	221.2	310.4	204.5	187.9
82.5°	1132.1	719.4	66.6	30.9	34.5	55.9	118.9	265.2	225.9	135.6	128.4
85°	423.3	193.8	20.2	15.5	19.0	28.5	48.8	242.6	143.9	108.2	105.8
87.5°	2.4	3.6	3.6	4.8	7.1	8.3	17.8	115.3	72.5	52.3	49.9
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)