

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: P233833

Luminaire Tested: **VERD-G-C028-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233833
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-G-C028-D-U-T2-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 885mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11918 lumens
Efficiency: N/A
Efficacy: 115.7 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

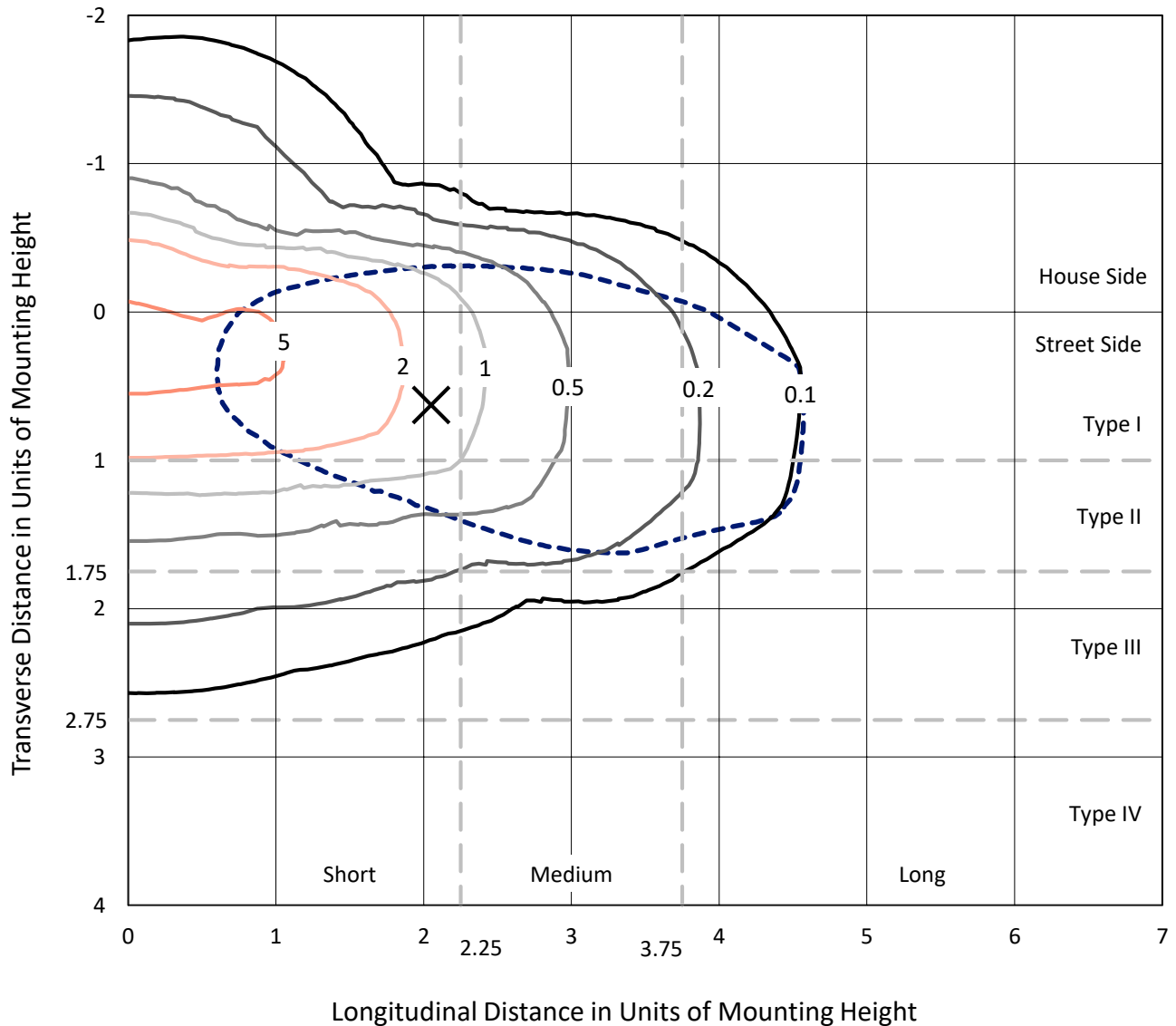
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

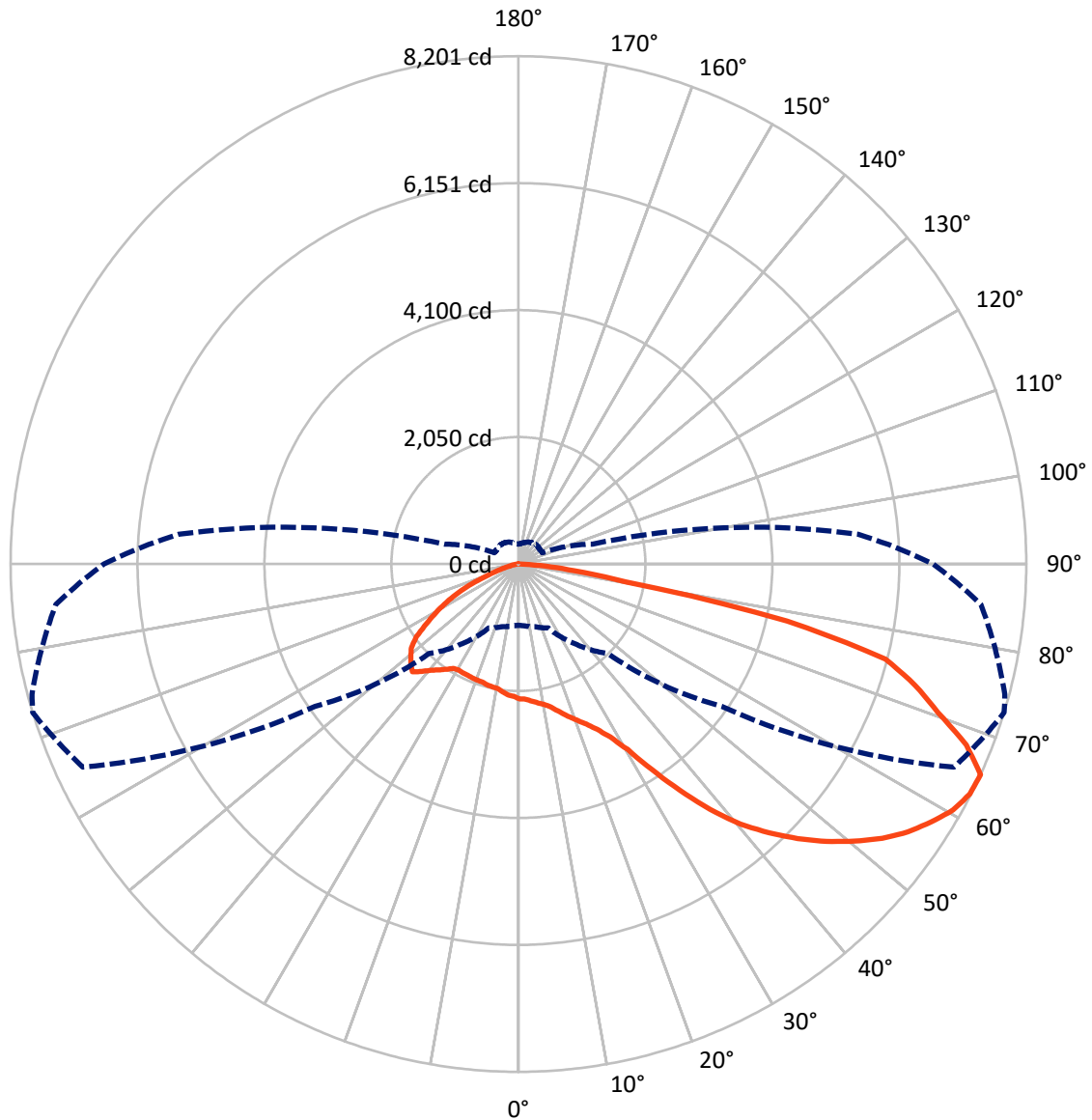


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Non-Cutoff

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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	3055.1	0.0	3055.1
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	8862.9	0.0	8862.9
	% Fixture	74.4	0.0	74.4
Total	Lumens	11918.0	0.0	11918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	1.7
10°-20°	628.8	5.3
20°-30°	1054.7	8.8
30°-40°	1546.7	13.0
40°-50°	2090.4	17.5
50°-60°	2421.6	20.3
60°-70°	2365.5	19.8
70°-80°	1420.5	11.9
80°-90°	181.9	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°	11918.0	100.0
0°-180°	11918.0	100.0



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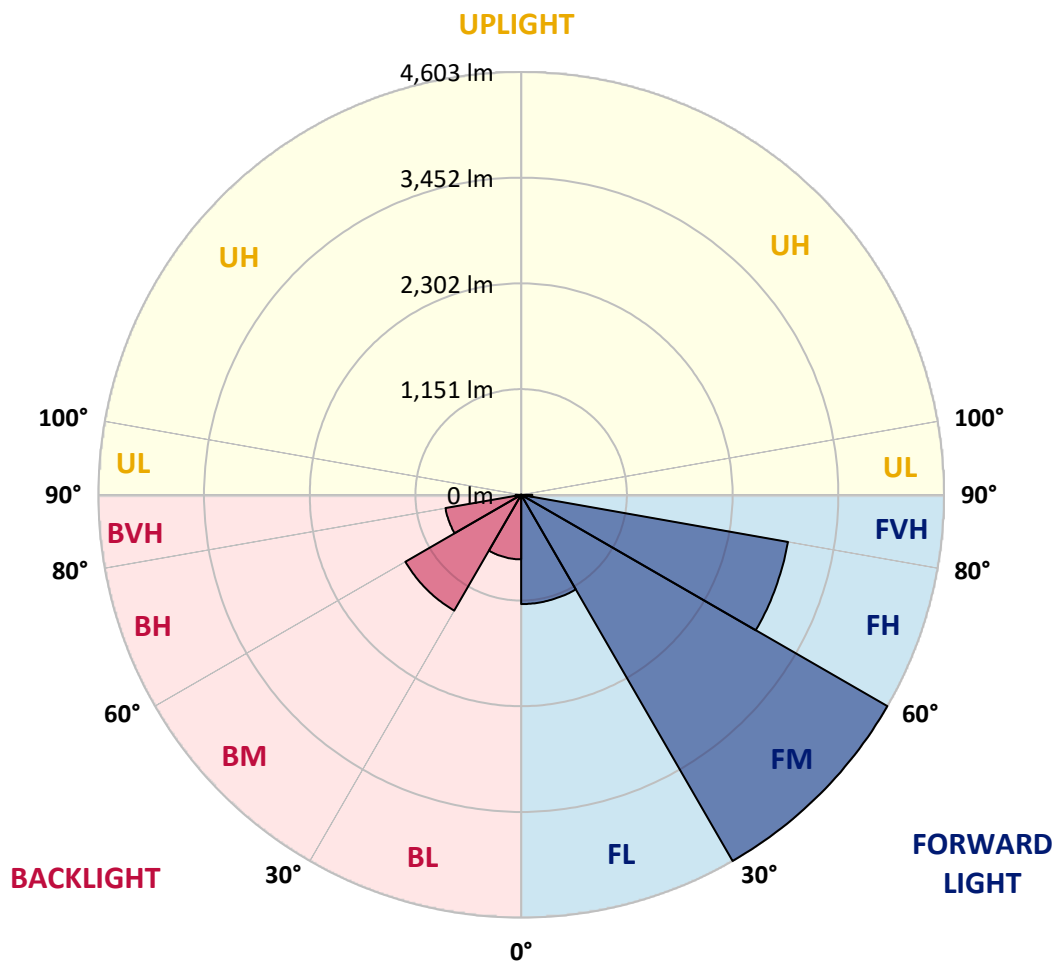
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1189.2	10.0			
FM	(30°-60°)	4603.1	38.6			
FH	(60°-80°)	2949.4	24.7			G2/5000
FVH	(80°-90°)	121.1	1.0			G2/225
BL	(0°-30°)	702.2	5.9	B2/1000		
BM	(30°-60°)	1455.6	12.2	B2/2500		
BH	(60°-80°)	836.5	7.0	B2/1000		G2/1000
BVH	(80°-90°)	60.8	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°	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2313.4	2322.0	2312.3	2284.2	2270.1	2260.4	2231.1	2205.2	2184.6	2182.4	2163.0
5°	2402.1	2415.1	2398.8	2363.1	2349.1	2328.5	2296.1	2260.4	2223.6	2216.0	2177.0
7.5°	2514.6	2516.8	2508.1	2472.4	2443.2	2399.9	2343.7	2305.8	2263.6	2251.7	2190.0
10°	2609.8	2608.8	2597.9	2563.3	2534.1	2496.2	2417.2	2355.6	2305.8	2290.6	2205.2
12.5°	2700.7	2698.6	2687.7	2652.0	2615.3	2583.9	2524.4	2441.0	2374.0	2354.5	2248.4
15°	2813.3	2807.9	2790.5	2742.9	2713.7	2676.9	2633.6	2550.3	2473.5	2446.5	2311.2
17.5°	2899.8	2898.7	2885.8	2845.7	2811.1	2771.1	2731.0	2666.1	2582.8	2552.5	2372.9
20°	2949.6	2945.3	2942.0	2910.6	2902.0	2880.4	2823.0	2773.2	2689.9	2658.5	2442.1
22.5°	3002.6	3003.7	3004.8	2988.6	3013.4	2995.0	2952.8	2892.3	2807.9	2772.1	2539.5
25°	3014.5	3016.7	3038.3	3074.0	3104.3	3137.9	3107.6	3048.1	2957.2	2919.3	2672.6
27.5°	2981.0	2989.6	3054.6	3115.1	3222.3	3265.6	3260.1	3256.9	3163.8	3126.0	2855.5
30°	3011.3	3011.3	3055.6	3159.5	3294.8	3408.4	3433.3	3502.5	3474.4	3447.3	3162.8
32.5°	2920.4	2936.6	3015.6	3160.6	3374.8	3540.4	3652.9	3845.5	3957.0	3934.2	3597.7
35°	2749.4	2771.1	2886.8	3108.7	3414.9	3696.2	3897.5	4268.6	4483.9	4511.0	4121.4
37.5°	2617.4	2635.8	2780.8	3027.5	3430.0	3842.3	4179.9	4744.7	5022.8	5008.7	4565.1
40°	2456.2	2488.7	2634.7	2931.2	3394.3	3966.7	4486.1	5181.8	5523.7	5458.8	4987.1
42.5°	2311.2	2339.3	2461.6	2777.6	3344.5	4037.0	4763.1	5631.9	5931.7	5879.7	5386.3
45°	2157.6	2182.4	2296.1	2593.6	3228.8	4071.7	5022.8	6062.6	6323.4	6264.9	5756.4
47.5°	1981.2	2014.7	2150.0	2420.5	3058.9	4050.0	5212.1	6437.0	6695.6	6652.3	6062.6
50°	1536.5	1571.1	1924.9	2258.2	2823.0	3960.2	5382.0	6811.3	7032.1	6991.0	6333.1
52.5°	1394.7	1409.9	1520.2	2072.1	2577.4	3782.8	5488.0	7119.7	7359.9	7318.8	6588.4
55°	1308.2	1319.0	1380.7	1692.3	2368.6	3497.1	5501.0	7440.0	7635.8	7581.7	6860.0
57.5°	1219.4	1231.3	1299.5	1459.7	2158.6	3050.2	5363.6	7711.6	7859.8	7801.4	7119.7
60°	1144.8	1151.3	1218.4	1328.7	1921.7	2606.6	5009.8	7896.6	8066.5	7990.8	7374.0
62.5°	1076.6	1085.3	1134.0	1234.6	1722.6	2274.4	4516.4	7897.7	8180.1	8133.6	7502.8
65°	987.9	1000.9	1048.5	1139.4	1561.4	2047.2	4005.7	7760.3	8200.7	8131.4	7496.3
67.5°	885.1	901.3	944.6	1017.1	1347.1	1804.8	3293.7	7579.6	7799.2	7787.3	7186.8
70°	782.3	782.3	831.0	889.4	1117.7	1545.1	2602.3	6935.8	7186.8	7205.2	6631.7
72.5°	660.0	662.2	700.1	750.9	900.2	1268.1	1895.7	5929.5	6699.9	6477.0	5981.4
75°	554.0	551.8	590.8	633.0	732.5	998.7	1236.8	4356.2	6123.2	6173.0	5264.1
77.5°	294.3	283.5	333.3	366.8	429.6	555.1	686.0	2184.6	4434.1	4531.5	4214.5
80°	83.3	84.4	220.7	246.7	282.4	274.8	318.1	833.2	1754.0	1976.9	2457.3
82.5°	49.8	57.3	125.5	147.2	110.4	71.4	121.2	463.1	907.8	1017.1	1219.4
85°	26.0	28.1	44.4	55.2	42.2	35.7	36.8	194.8	441.5	449.0	486.9
87.5°	11.9	11.9	16.2	17.3	10.8	6.5	4.3	3.2	3.2	2.2	2.2
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°	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2147.8	2158.6	2140.2	2126.2	2115.4	2108.9	2101.3	2082.9	2088.3	2095.9	2094.8
5°	2158.6	2164.0	2131.6	2087.2	2046.1	2016.9	1997.4	1968.2	1968.2	1980.1	1980.1
7.5°	2168.4	2160.8	2094.8	2020.1	1973.6	1949.8	1918.4	1887.1	1881.6	1890.3	1891.4
10°	2173.8	2141.3	2049.4	1980.1	1919.5	1870.8	1830.8	1795.1	1794.0	1805.9	1808.1
12.5°	2197.6	2134.8	2046.1	1950.9	1860.0	1808.1	1760.5	1720.4	1706.4	1707.4	1709.6
15°	2234.4	2160.8	2041.8	1910.9	1812.4	1743.1	1673.9	1623.0	1610.1	1627.4	1633.9
17.5°	2278.7	2203.0	2021.2	1874.1	1754.0	1670.6	1601.4	1556.0	1514.8	1496.4	1493.2
20°	2337.2	2238.7	2032.0	1820.0	1697.7	1586.2	1499.7	1444.5	1409.9	1407.7	1405.6
22.5°	2414.0	2278.7	2034.2	1784.3	1609.0	1493.2	1386.1	1354.7	1293.0	1270.3	1280.0
25°	2515.7	2339.3	2028.8	1746.4	1540.8	1385.0	1256.2	1198.9	1176.2	1150.2	1152.4
27.5°	2646.6	2435.6	2042.9	1696.6	1429.4	1253.0	1109.1	1047.4	1012.8	991.1	994.4
30°	2912.8	2581.7	2041.8	1649.0	1326.6	1116.6	954.3	913.2	878.6	859.1	868.9
32.5°	3291.5	2898.7	2087.2	1585.2	1209.7	933.8	824.5	778.0	748.8	727.1	732.5
35°	3760.0	3243.9	2204.1	1498.6	1076.6	794.2	719.5	662.2	626.5	617.8	614.6
37.5°	4195.0	3549.0	2314.5	1441.3	924.0	717.4	623.2	565.9	534.5	545.3	545.3
40°	4583.5	3953.7	2438.9	1349.3	785.6	629.7	516.1	490.2	473.9	492.3	498.8
42.5°	4876.7	4342.2	2607.7	1228.1	673.0	525.9	441.5	459.9	466.4	479.3	476.1
45°	5240.2	4564.0	2774.3	1115.6	574.6	438.2	426.3	464.2	479.3	491.2	485.8
47.5°	5574.6	4736.0	2740.8	907.8	483.7	424.2	433.9	464.2	490.2	509.6	506.4
50°	5862.4	4951.3	2676.9	705.5	464.2	437.1	441.5	452.3	491.2	504.2	504.2
52.5°	6042.0	5164.5	2597.9	570.2	478.3	453.4	445.8	444.7	470.7	480.4	471.8
55°	6258.4	5385.2	2393.4	529.1	483.7	464.2	457.7	448.0	455.5	448.0	452.3
57.5°	6498.6	5602.7	2079.7	517.2	480.4	460.9	495.6	443.6	439.3	412.3	405.8
60°	6709.6	5688.2	1804.8	490.2	463.1	452.3	460.9	438.2	416.6	380.9	366.8
62.5°	6788.6	5680.6	1525.7	462.0	437.1	439.3	438.2	422.0	402.5	366.8	358.2
65°	6693.4	5507.5	1236.8	428.5	416.6	425.2	414.4	390.6	358.2	328.9	321.4
67.5°	6371.0	5066.0	918.6	384.1	383.0	399.3	391.7	359.2	323.5	300.8	300.8
70°	5754.2	4522.9	595.1	319.2	343.0	371.1	371.1	336.5	290.0	270.5	275.9
72.5°	5079.0	3892.0	385.2	237.0	270.5	336.5	334.3	310.5	267.3	242.4	243.5
75°	4399.5	3088.1	248.9	163.4	175.3	286.7	296.5	253.2	207.7	177.5	172.0
77.5°	3344.5	2323.1	158.0	95.2	111.4	175.3	225.1	211.0	212.1	258.6	256.4
80°	2056.9	1400.1	114.7	46.5	55.2	114.7	181.8	201.3	282.4	186.1	171.0
82.5°	1030.1	654.6	60.6	28.1	31.4	50.9	108.2	241.3	205.6	123.4	116.9
85°	385.2	176.4	18.4	14.1	17.3	26.0	44.4	220.7	130.9	98.5	96.3
87.5°	2.2	3.2	3.2	4.3	6.5	7.6	16.2	105.0	66.0	47.6	45.4
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)