

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: P509373

Luminaire Tested: **VERD-CA2-80-750-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-750-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1100mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11762 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

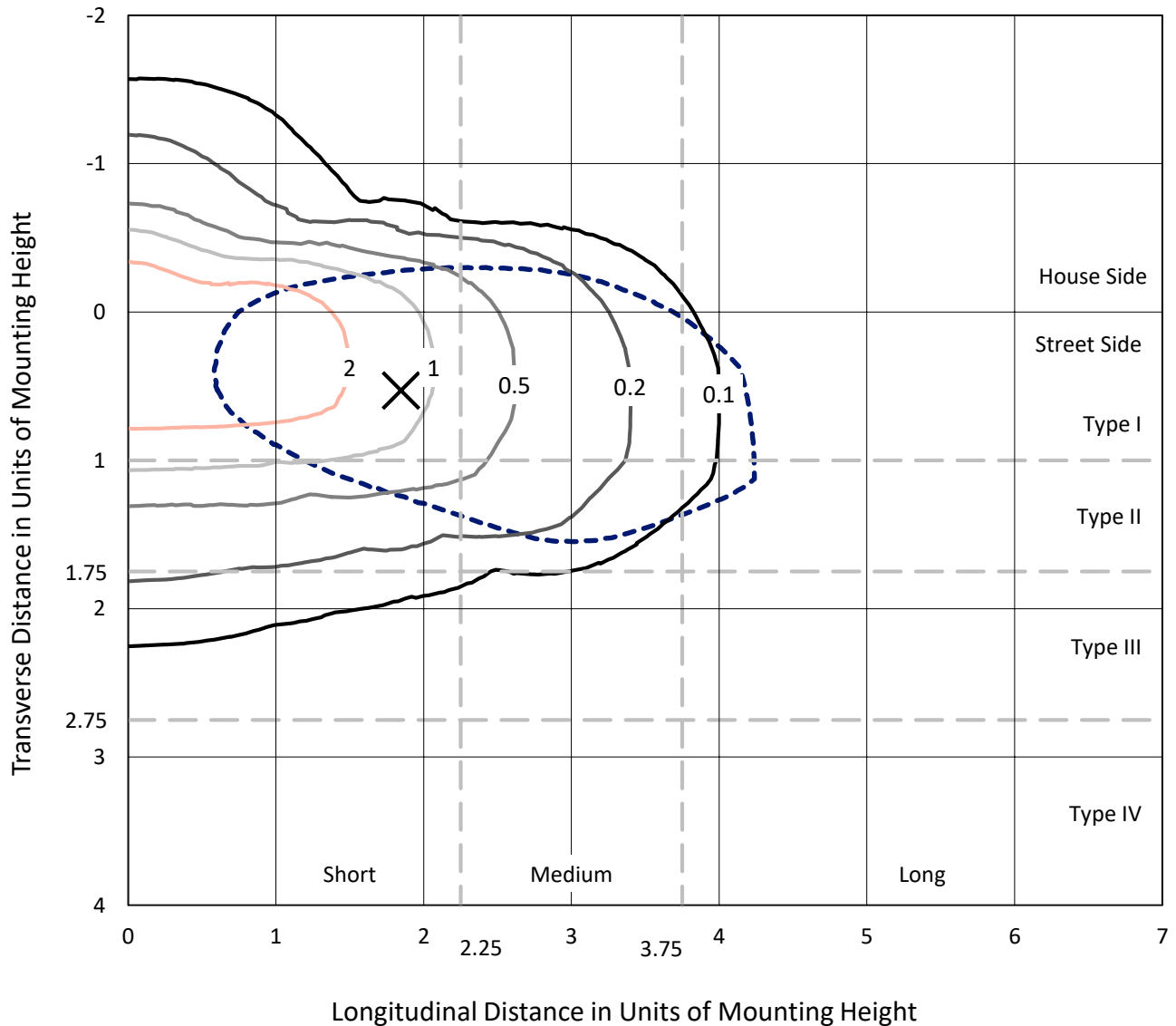
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

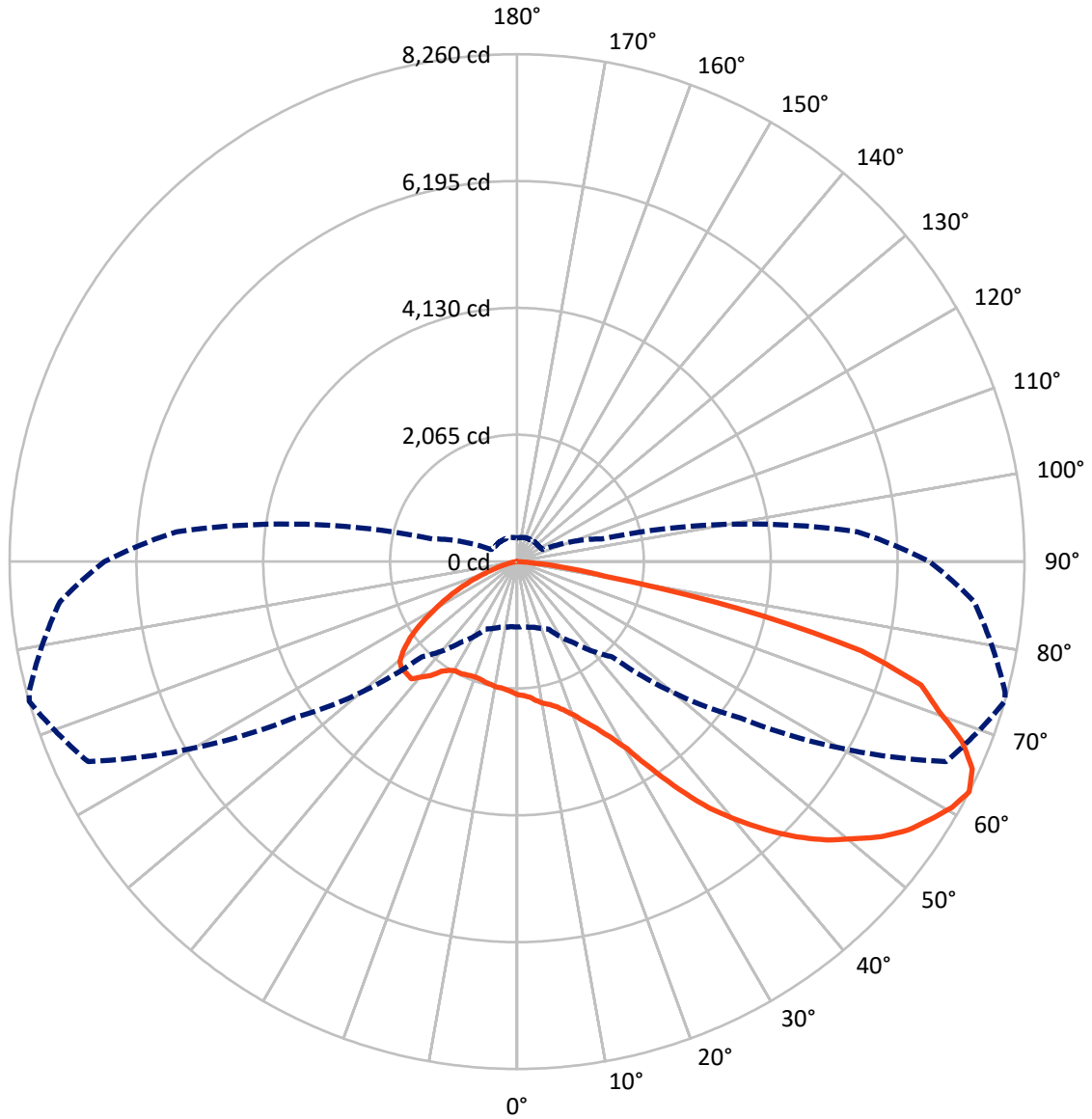
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3037.0	0.0	3037.0
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	8725.0	0.0	8725.0
	% Fixture	74.2	0.0	74.2
Total	Lumens	11762.0	0.0	11762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	1.8
10°-20°	635.4	5.4
20°-30°	1071.4	9.1
30°-40°	1565.4	13.3
40°-50°	2084.3	17.7
50°-60°	2398.7	20.4
60°-70°	2318.0	19.7
70°-80°	1334.4	11.3
80°-90°	146.0	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°	11762.0	100.0
0°-180°	11762.0	100.0

Coefficient of Utilization



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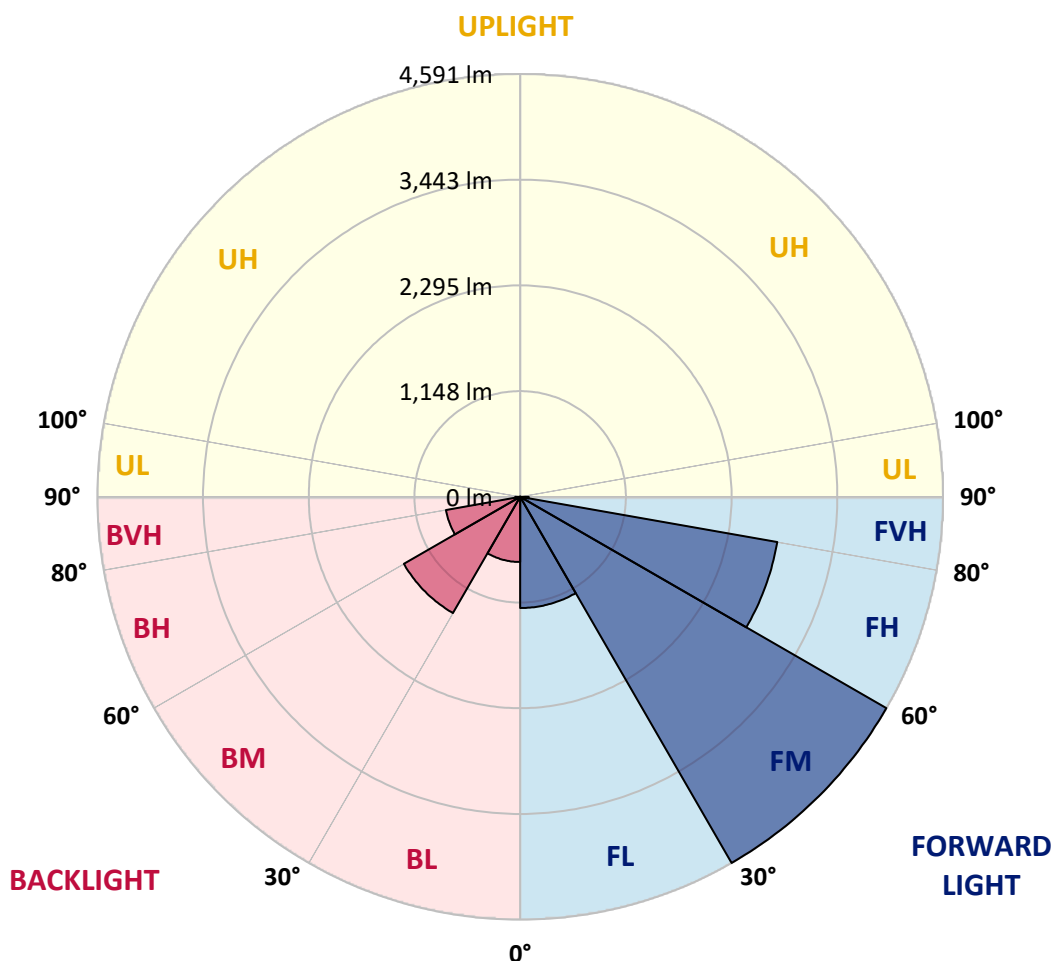
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.2	10.3			
FM (30°-60°)	4590.7	39.0			
FH (60°-80°)	2834.7	24.1			G2/5000
FVH (80°-90°)	92.3	0.8			G1/100
BL (0°-30°)	708.1	6.0	B2/1000		
BM (30°-60°)	1457.7	12.4	B2/2500		
BH (60°-80°)	817.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	53.6	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°	74°	75°	85°
0°	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9
2.5°	2321.5	2304.8	2294.5	2283.0	2268.9	2263.8	2233.0	2206.0	2184.2	2185.5	2171.4
5°	2406.1	2388.2	2365.1	2361.2	2343.3	2339.4	2309.9	2267.6	2220.2	2213.7	2171.4
7.5°	2501.0	2490.8	2476.7	2458.7	2429.2	2410.0	2367.7	2334.3	2285.6	2279.2	2195.8
10°	2616.5	2608.8	2598.5	2598.5	2560.0	2519.0	2467.7	2384.3	2345.8	2339.4	2238.1
12.5°	2752.4	2729.3	2696.0	2676.8	2640.8	2615.2	2560.0	2471.5	2388.2	2385.6	2277.9
15°	2840.9	2821.7	2799.9	2792.2	2746.0	2703.7	2644.7	2574.1	2457.4	2448.5	2326.6
17.5°	2939.7	2921.7	2896.1	2882.0	2852.5	2803.7	2751.1	2658.8	2554.9	2545.9	2381.8
20°	2994.8	2975.6	2967.9	2970.5	2960.2	2935.8	2873.0	2789.6	2670.3	2658.8	2457.4
22.5°	3056.4	3043.6	3046.1	3065.4	3084.6	3075.6	3026.9	2934.6	2831.9	2814.0	2579.3
25°	3057.7	3047.4	3082.1	3156.4	3197.5	3218.0	3192.4	3116.7	3007.7	2991.0	2734.5
27.5°	3079.5	3064.1	3101.3	3179.5	3303.9	3346.3	3355.2	3327.0	3233.4	3212.9	2920.4
30°	3023.1	3012.8	3069.2	3205.2	3351.4	3492.5	3543.8	3587.4	3534.8	3536.1	3207.7
32.5°	2925.6	2907.6	2993.6	3160.3	3432.2	3624.6	3760.5	3936.3	4017.1	4009.4	3708.0
35°	2739.6	2749.9	2865.3	3120.5	3434.8	3759.3	4026.0	4340.3	4559.6	4554.5	4226.1
37.5°	2607.5	2602.4	2738.3	3008.9	3433.5	3878.5	4283.8	4807.1	5090.6	5082.9	4671.2
40°	2448.5	2449.7	2585.7	2870.4	3373.2	3952.9	4550.6	5249.6	5538.2	5526.7	5097.0
42.5°	2277.9	2283.0	2410.0	2701.1	3289.8	4009.4	4789.2	5697.2	5976.8	5987.1	5438.2
45°	2125.2	2127.8	2253.5	2520.3	3142.3	4015.8	5003.4	6120.5	6392.4	6368.0	5796.0
47.5°	1900.8	1903.4	2089.3	2348.4	2947.4	3963.2	5180.4	6523.2	6772.0	6720.7	6098.7
50°	1489.1	1494.2	1714.8	2170.1	2710.1	3842.6	5320.2	6901.6	7094.0	7072.2	6409.1
52.5°	1374.9	1371.1	1463.4	1957.2	2497.2	3624.6	5408.7	7241.5	7436.4	7433.9	6665.6
55°	1317.2	1313.4	1344.1	1586.6	2288.1	3301.4	5406.1	7505.7	7719.9	7667.3	6900.3
57.5°	1214.6	1206.9	1286.4	1405.7	2054.7	2898.6	5277.8	7743.0	7925.1	7909.7	7111.9
60°	1141.5	1135.1	1189.0	1299.3	1805.9	2489.5	4948.2	7866.1	8131.6	8138.0	7290.2
62.5°	1065.8	1062.0	1108.2	1210.8	1610.9	2190.7	4440.3	7704.5	8259.8	8225.2	7468.5
65°	979.9	977.3	1020.9	1104.3	1417.3	1963.6	3942.7	7415.9	8144.4	8184.2	7491.6
67.5°	877.3	876.0	918.3	976.0	1205.6	1735.3	3180.8	7076.0	7814.8	7771.2	7195.3
70°	751.6	746.5	799.1	852.9	1009.4	1476.3	2475.4	6471.9	7278.7	7436.4	6605.3
72.5°	632.3	629.7	679.8	719.5	836.2	1205.6	1805.9	5597.2	6877.2	6650.2	5951.2
75°	495.1	482.3	534.8	572.0	659.2	959.4	1231.3	3738.7	5788.3	5740.9	4999.5
77.5°	200.1	232.1	277.0	310.4	368.1	543.8	643.9	1773.8	3692.6	3855.5	3477.1
80°	77.0	82.1	197.5	223.2	247.5	313.0	247.5	747.7	1457.0	1589.1	2013.7
82.5°	43.6	48.7	97.5	93.6	92.3	79.5	92.3	366.8	760.6	833.7	972.2
85°	24.4	26.9	39.8	43.6	37.2	32.1	28.2	96.2	189.8	179.6	201.4
87.5°	3.8	5.1	6.4	6.4	3.8	3.8	3.8	5.1	5.1	5.1	6.4
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°	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9	2168.9
2.5°	2157.3	2143.2	2129.1	2112.4	2091.9	2079.1	2073.9	2080.4	2098.3	2076.5	2058.5
5°	2149.6	2130.4	2098.3	2066.2	2040.6	2018.8	1989.3	1986.7	1991.9	1982.9	1959.8
7.5°	2166.3	2138.1	2072.7	2050.9	1997.0	1945.7	1929.0	1922.6	1907.2	1889.2	1867.4
10°	2199.6	2141.9	2075.2	2011.1	1961.1	1905.9	1841.8	1843.1	1836.7	1816.1	1795.6
12.5°	2216.3	2148.3	2050.9	1982.9	1905.9	1837.9	1775.1	1746.9	1758.4	1741.8	1719.9
15°	2247.1	2175.3	2041.9	1941.8	1836.7	1759.7	1712.3	1671.2	1645.6	1649.4	1636.6
17.5°	2304.8	2199.6	2018.8	1896.9	1782.8	1691.7	1600.7	1596.8	1558.3	1536.5	1517.3
20°	2365.1	2243.2	2016.2	1848.2	1695.6	1582.7	1509.6	1468.6	1445.5	1427.5	1413.4
22.5°	2443.3	2303.5	2025.2	1820.0	1617.3	1490.4	1396.7	1341.6	1304.4	1291.6	1281.3
25°	2553.6	2379.2	2049.6	1770.0	1535.3	1389.0	1262.1	1204.3	1162.0	1151.8	1144.1
27.5°	2705.0	2475.4	2073.9	1716.1	1439.1	1246.7	1112.0	1055.6	1008.1	1006.8	992.7
30°	2943.5	2622.9	2082.9	1668.6	1336.5	1094.0	959.4	906.8	870.9	856.8	867.0
32.5°	3388.6	2948.7	2139.4	1595.5	1206.9	945.3	831.1	788.8	749.0	733.6	743.9
35°	3869.6	3338.6	2234.3	1545.5	1064.5	804.2	725.9	675.9	627.2	619.5	615.6
37.5°	4222.3	3693.8	2413.8	1463.4	929.9	718.2	615.6	574.6	546.4	531.0	545.1
40°	4622.4	3988.8	2549.8	1376.2	792.6	627.2	513.0	500.2	487.4	477.1	492.5
42.5°	4939.2	4292.8	2711.4	1260.8	682.3	532.3	456.6	466.9	473.3	468.1	469.4
45°	5230.4	4518.5	2721.6	1085.1	582.3	461.7	439.9	460.4	475.8	473.3	472.0
47.5°	5515.1	4787.9	2746.0	899.1	510.5	443.8	441.2	456.6	477.1	481.0	481.0
50°	5808.8	4993.1	2708.8	723.4	483.5	446.3	445.1	443.8	469.4	470.7	474.6
52.5°	6029.4	5159.8	2533.1	597.7	482.3	454.0	451.5	438.6	450.2	459.2	452.8
55°	6262.9	5367.6	2311.2	550.2	479.7	456.6	466.9	445.1	437.4	429.7	437.4
57.5°	6484.7	5512.6	2020.1	522.0	469.4	452.8	473.3	443.8	427.1	405.3	397.6
60°	6655.3	5545.9	1695.6	492.5	456.6	443.8	445.1	434.8	413.0	386.1	374.5
62.5°	6713.0	5565.1	1426.2	464.3	430.9	429.7	419.4	415.6	406.6	389.9	384.8
65°	6664.3	5347.1	1138.9	429.7	409.1	410.4	395.0	382.2	361.7	334.8	332.2
67.5°	6329.6	4963.6	873.4	386.1	375.8	388.6	371.9	350.1	327.1	309.1	311.7
70°	5756.2	4509.6	613.1	325.8	337.3	360.4	354.0	325.8	300.1	284.7	287.3
72.5°	5118.8	3820.8	416.8	254.0	274.5	323.2	323.2	304.0	278.3	257.8	252.7
75°	4037.6	3001.2	269.3	168.0	180.8	264.2	286.0	256.5	228.3	215.5	210.3
77.5°	2740.9	1954.7	171.9	96.2	120.6	173.1	225.7	229.6	270.6	271.9	260.4
80°	1610.9	1118.4	105.2	56.4	60.3	100.0	180.8	227.0	287.3	202.6	186.0
82.5°	801.6	477.1	47.5	34.6	35.9	50.0	97.5	260.4	221.9	127.0	121.8
85°	178.3	78.2	19.2	18.0	20.5	25.7	50.0	215.5	136.0	102.6	100.0
87.5°	6.4	5.1	5.1	5.1	3.8	3.8	10.3	70.5	53.9	44.9	42.3
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)