

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: P509093

Luminaire Tested: **VERD-CA2-100-760-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509093
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-CA2-100-760-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1370mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13817 lumens
Efficiency: N/A
Efficacy: 133.6 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

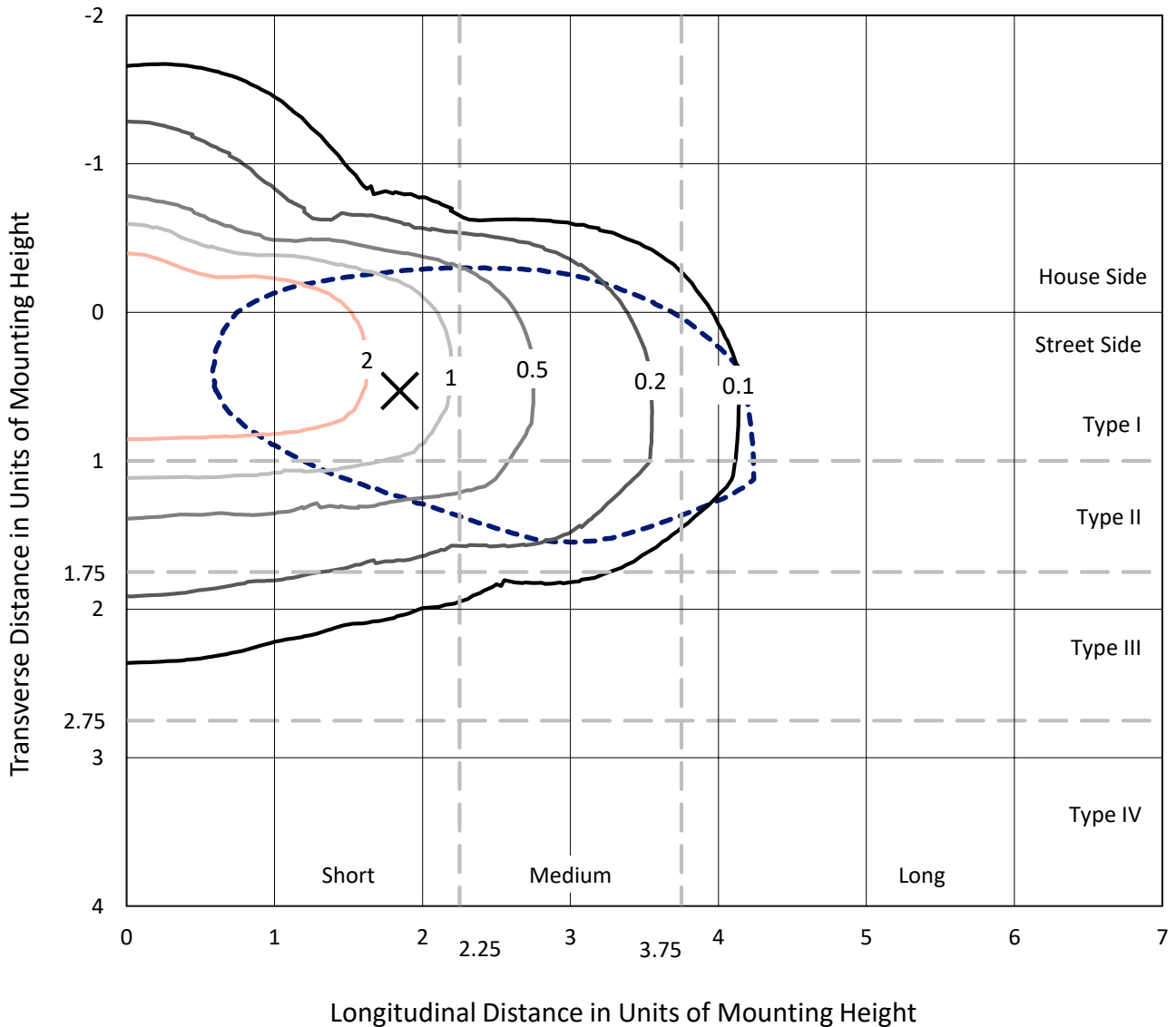
Input Watts (W): 103.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

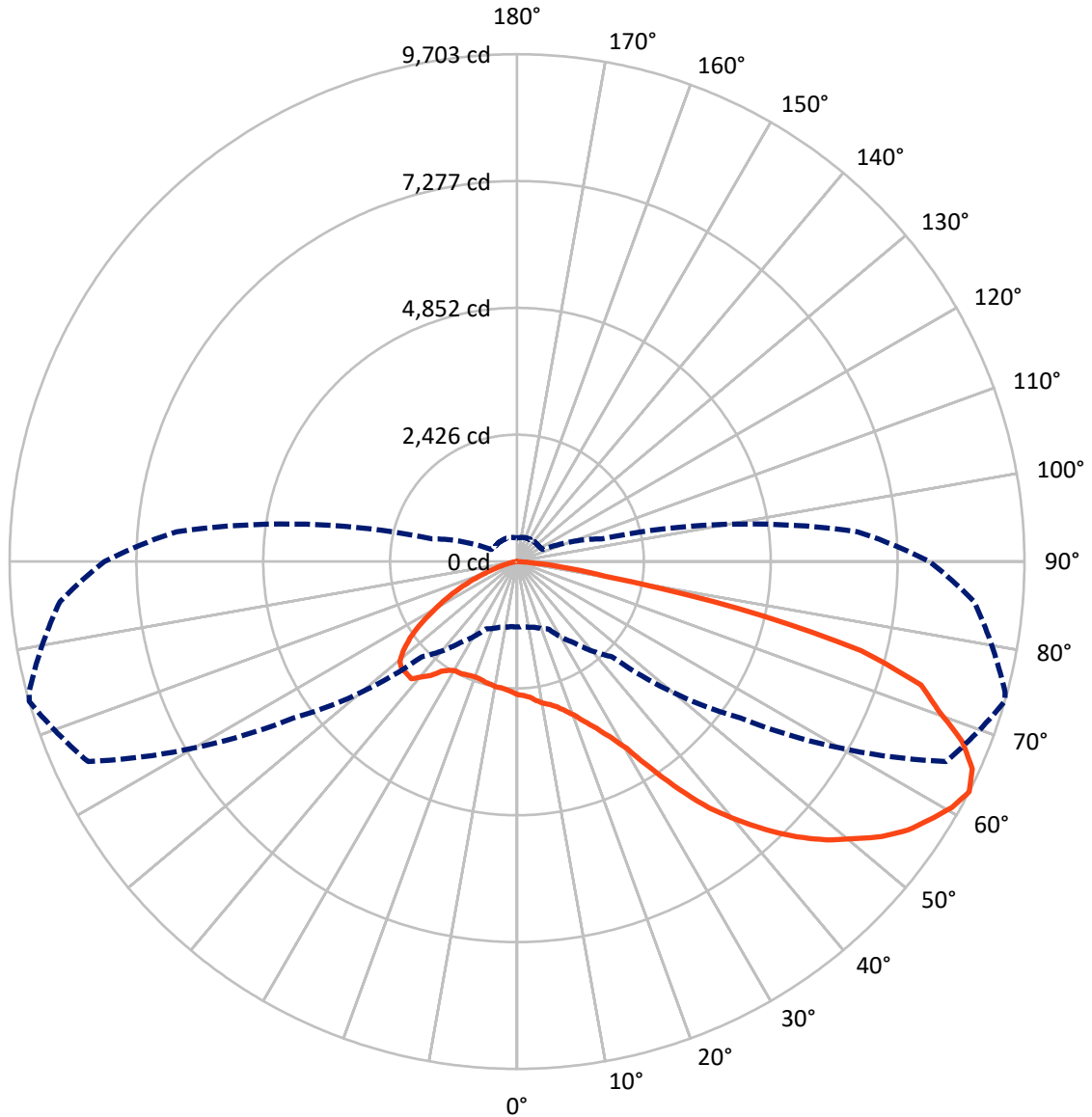
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	3567.6	0.0	3567.6
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	10249.3	0.0	10249.3
	% Fixture	74.2	0.0	74.2
Total	Lumens	13817.0	0.0	13817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.8	1.8
10°-20°	746.4	5.4
20°-30°	1258.6	9.1
30°-40°	1838.9	13.3
40°-50°	2448.5	17.7
50°-60°	2817.8	20.4
60°-70°	2722.9	19.7
70°-80°	1567.5	11.3
80°-90°	171.5	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°	13817.0	100.0
0°-180°	13817.0	100.0

Coefficient of Utilization



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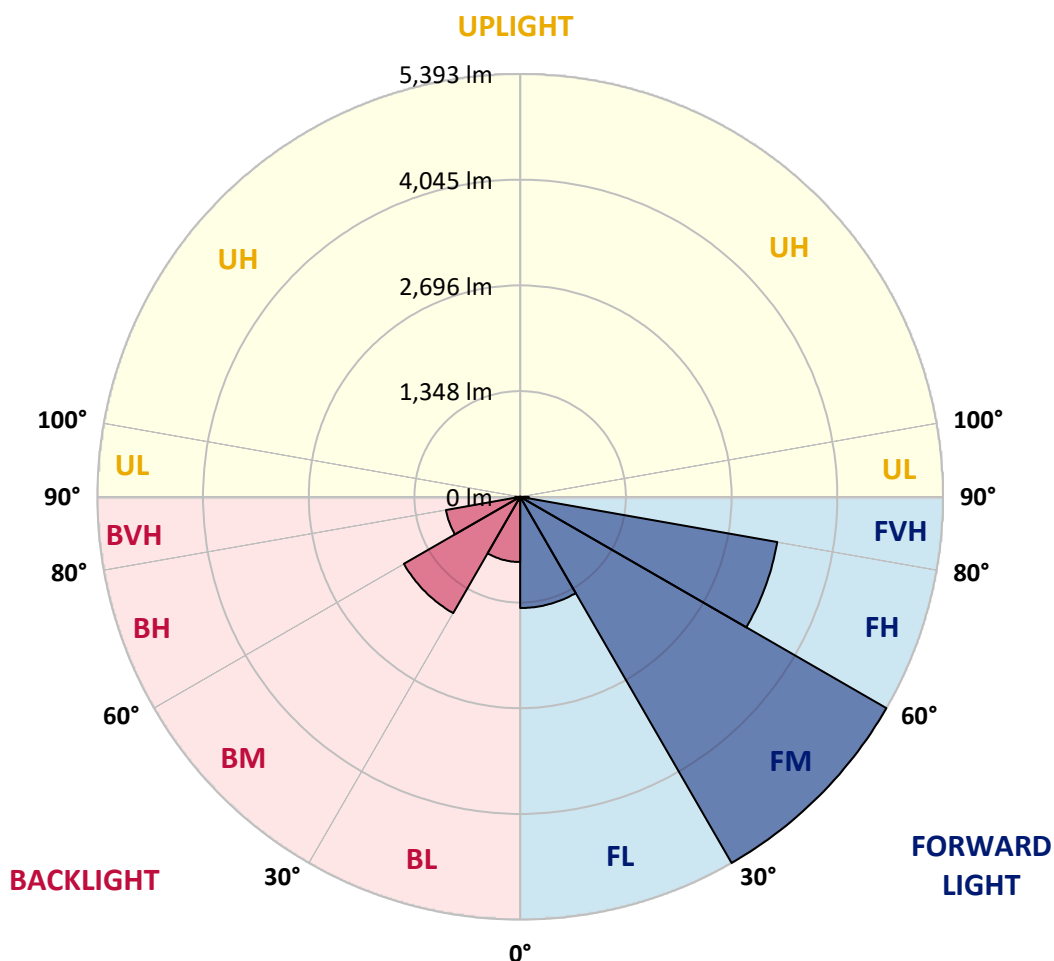
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.1	10.3			
FM (30°-60°)	5392.8	39.0			
FH (60°-80°)	3330.0	24.1			G2/5000
FVH (80°-90°)	108.5	0.8			G2/225
BL (0°-30°)	831.8	6.0	B2/1000		
BM (30°-60°)	1712.4	12.4	B2/2500		
BH (60°-80°)	960.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	63.0	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°	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8
2.5°	2727.1	2707.5	2695.4	2681.9	2665.3	2659.3	2623.1	2591.5	2565.9	2567.4	2550.8
5°	2826.5	2805.4	2778.3	2773.8	2752.7	2748.2	2713.5	2663.8	2608.0	2600.5	2550.8
7.5°	2938.0	2926.0	2909.4	2888.3	2853.6	2831.0	2781.3	2742.1	2684.9	2677.4	2579.4
10°	3073.6	3064.6	3052.5	3052.5	3007.3	2959.1	2898.8	2800.9	2755.7	2748.2	2629.1
12.5°	3233.3	3206.2	3167.0	3144.4	3102.2	3072.1	3007.3	2903.4	2805.4	2802.4	2675.8
15°	3337.3	3314.7	3289.1	3280.0	3225.8	3176.1	3106.8	3023.9	2886.8	2876.2	2733.1
17.5°	3453.3	3432.2	3402.1	3385.5	3350.8	3293.6	3231.8	3123.3	3001.3	2990.7	2797.9
20°	3518.1	3495.5	3486.4	3489.5	3477.4	3448.8	3374.9	3277.0	3136.9	3123.3	2886.8
22.5°	3590.4	3575.3	3578.3	3600.9	3623.5	3613.0	3555.7	3447.3	3326.7	3305.6	3029.9
25°	3591.9	3579.9	3620.5	3707.9	3756.1	3780.2	3750.1	3661.2	3533.1	3513.6	3212.2
27.5°	3617.5	3599.4	3643.1	3735.0	3881.2	3930.9	3941.5	3908.3	3798.3	3774.2	3430.7
30°	3551.2	3539.2	3605.5	3765.2	3936.9	4102.7	4162.9	4214.2	4152.4	4153.9	3768.2
32.5°	3436.7	3415.6	3516.6	3712.4	4031.9	4257.9	4417.6	4624.0	4718.9	4709.9	4355.8
35°	3218.3	3230.3	3365.9	3665.7	4034.9	4416.1	4729.4	5098.6	5356.2	5350.2	4964.5
37.5°	3063.1	3057.0	3216.7	3534.7	4033.4	4556.2	5032.3	5647.0	5980.0	5970.9	5487.3
40°	2876.2	2877.7	3037.5	3371.9	3962.5	4643.6	5345.7	6166.8	6505.8	6492.2	5987.5
42.5°	2675.8	2681.9	2831.0	3173.1	3864.6	4709.9	5625.9	6692.6	7021.1	7033.1	6388.3
45°	2496.6	2499.6	2647.2	2960.6	3691.3	4717.4	5877.5	7189.8	7509.3	7480.6	6808.7
47.5°	2232.9	2235.9	2454.4	2758.7	3462.3	4655.6	6085.4	7662.9	7955.2	7895.0	7164.2
50°	1749.2	1755.3	2014.4	2549.3	3183.6	4514.0	6249.7	8107.4	8333.4	8307.8	7528.8
52.5°	1615.2	1610.6	1719.1	2299.2	2933.5	4257.9	6353.6	8506.7	8735.7	8732.7	7830.2
55°	1547.4	1542.8	1579.0	1863.8	2687.9	3878.2	6350.6	8817.0	9068.7	9006.9	8105.9
57.5°	1426.8	1417.8	1511.2	1651.3	2413.7	3405.1	6200.0	9095.8	9309.7	9291.6	8354.5
60°	1340.9	1333.4	1396.7	1526.3	2121.4	2924.5	5812.7	9240.4	9552.3	9559.8	8563.9
62.5°	1252.0	1247.5	1301.8	1422.3	1892.4	2573.4	5216.1	9050.6	9703.0	9662.3	8773.4
65°	1151.1	1148.1	1199.3	1297.2	1664.9	2306.7	4631.5	8711.6	9567.4	9614.1	8800.5
67.5°	1030.6	1029.1	1078.8	1146.6	1416.3	2038.5	3736.5	8312.3	9180.2	9128.9	8452.4
70°	882.9	876.9	938.7	1001.9	1185.8	1734.2	2907.9	7602.7	8550.4	8735.7	7759.4
72.5°	742.8	739.8	798.5	845.2	982.4	1416.3	2121.4	6575.1	8078.8	7812.1	6991.0
75°	581.6	566.5	628.3	672.0	774.4	1127.0	1446.4	4391.9	6799.6	6743.9	5873.0
77.5°	235.0	272.7	325.4	364.6	432.4	638.8	756.3	2083.7	4337.7	4529.1	4084.6
80°	90.4	96.4	232.0	262.2	290.8	367.6	290.8	878.4	1711.6	1866.8	2365.5
82.5°	51.2	57.3	114.5	110.0	108.5	93.4	108.5	430.9	893.5	979.3	1142.1
85°	28.6	31.6	46.7	51.2	43.7	37.7	33.1	113.0	223.0	210.9	236.5
87.5°	4.5	6.0	7.5	7.5	4.5	4.5	4.5	6.0	6.0	6.0	7.5
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°	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8	2547.8
2.5°	2534.2	2517.6	2501.1	2481.5	2457.4	2442.3	2436.3	2443.8	2464.9	2439.3	2418.2
5°	2525.2	2502.6	2464.9	2427.2	2397.1	2371.5	2336.8	2333.8	2339.9	2329.3	2302.2
7.5°	2544.8	2511.6	2434.8	2409.2	2345.9	2285.6	2266.0	2258.5	2240.4	2219.3	2193.7
10°	2583.9	2516.1	2437.8	2362.5	2303.7	2238.9	2163.6	2165.1	2157.6	2133.4	2109.3
12.5°	2603.5	2523.7	2409.2	2329.3	2238.9	2159.1	2085.2	2052.1	2065.6	2046.1	2020.4
15°	2639.7	2555.3	2398.6	2281.1	2157.6	2067.2	2011.4	1963.2	1933.1	1937.6	1922.5
17.5°	2707.5	2583.9	2371.5	2228.4	2094.3	1987.3	1880.3	1875.8	1830.6	1805.0	1782.4
20°	2778.3	2635.2	2368.5	2171.1	1991.8	1859.2	1773.4	1725.1	1698.0	1676.9	1660.4
22.5°	2870.2	2706.0	2379.0	2138.0	1899.9	1750.8	1640.8	1576.0	1532.3	1517.2	1505.2
25°	2999.8	2794.9	2407.7	2079.2	1803.5	1631.7	1482.6	1414.8	1365.0	1353.0	1344.0
27.5°	3177.6	2907.9	2436.3	2015.9	1690.5	1464.5	1306.3	1240.0	1184.2	1182.7	1166.2
30°	3457.8	3081.1	2446.8	1960.2	1570.0	1285.2	1127.0	1065.2	1023.0	1006.5	1018.5
32.5°	3980.6	3463.8	2513.1	1874.3	1417.8	1110.4	976.3	926.6	879.9	861.8	873.9
35°	4545.6	3921.9	2624.6	1815.5	1250.5	944.7	852.8	794.0	736.8	727.7	723.2
37.5°	4960.0	4339.2	2835.6	1719.1	1092.3	843.7	723.2	675.0	641.8	623.8	640.3
40°	5430.0	4685.7	2995.3	1616.7	931.1	736.8	602.7	587.6	572.5	560.5	578.6
42.5°	5802.2	5042.8	3185.1	1481.1	801.5	625.3	536.4	548.4	556.0	549.9	551.4
45°	6144.2	5308.0	3197.2	1274.6	684.0	542.4	516.8	540.9	559.0	556.0	554.5
47.5°	6478.7	5624.4	3225.8	1056.2	599.7	521.3	518.3	536.4	560.5	565.0	565.0
50°	6823.7	5865.5	3182.1	849.8	568.0	524.3	522.8	521.3	551.4	552.9	557.5
52.5°	7082.9	6061.3	2975.7	702.1	566.5	533.4	530.3	515.3	528.8	539.4	531.9
55°	7357.1	6305.4	2715.0	646.4	563.5	536.4	548.4	522.8	513.8	504.7	513.8
57.5°	7617.7	6475.7	2373.0	613.2	551.4	531.9	556.0	521.3	501.7	476.1	467.1
60°	7818.1	6514.8	1991.8	578.6	536.4	521.3	522.8	510.8	485.1	453.5	439.9
62.5°	7885.9	6537.4	1675.4	545.4	506.2	504.7	492.7	488.2	477.6	458.0	452.0
65°	7828.7	6281.3	1337.9	504.7	480.6	482.1	464.1	449.0	424.9	393.2	390.2
67.5°	7435.4	5830.8	1026.0	453.5	441.5	456.5	436.9	411.3	384.2	363.1	366.1
70°	6761.9	5297.5	720.2	382.7	396.3	423.4	415.8	382.7	352.6	334.5	337.5
72.5°	6013.1	4488.4	489.7	298.3	322.4	379.7	379.7	357.1	326.9	302.8	296.8
75°	4743.0	3525.6	316.4	197.4	212.4	310.4	336.0	301.3	268.2	253.1	247.1
77.5°	3219.8	2296.2	201.9	113.0	141.6	203.4	265.2	269.7	317.9	319.4	305.9
80°	1892.4	1313.8	123.5	66.3	70.8	117.5	212.4	266.7	337.5	238.1	218.5
82.5°	941.7	560.5	55.7	40.7	42.2	58.8	114.5	305.9	260.7	149.2	143.1
85°	209.4	91.9	22.6	21.1	24.1	30.1	58.8	253.1	159.7	120.5	117.5
87.5°	7.5	6.0	6.0	6.0	4.5	4.5	12.1	82.9	63.3	52.7	49.7
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)