

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: P553525

Luminaire Tested: **VERD-G-CA2-140-740-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-740-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1290mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20422 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

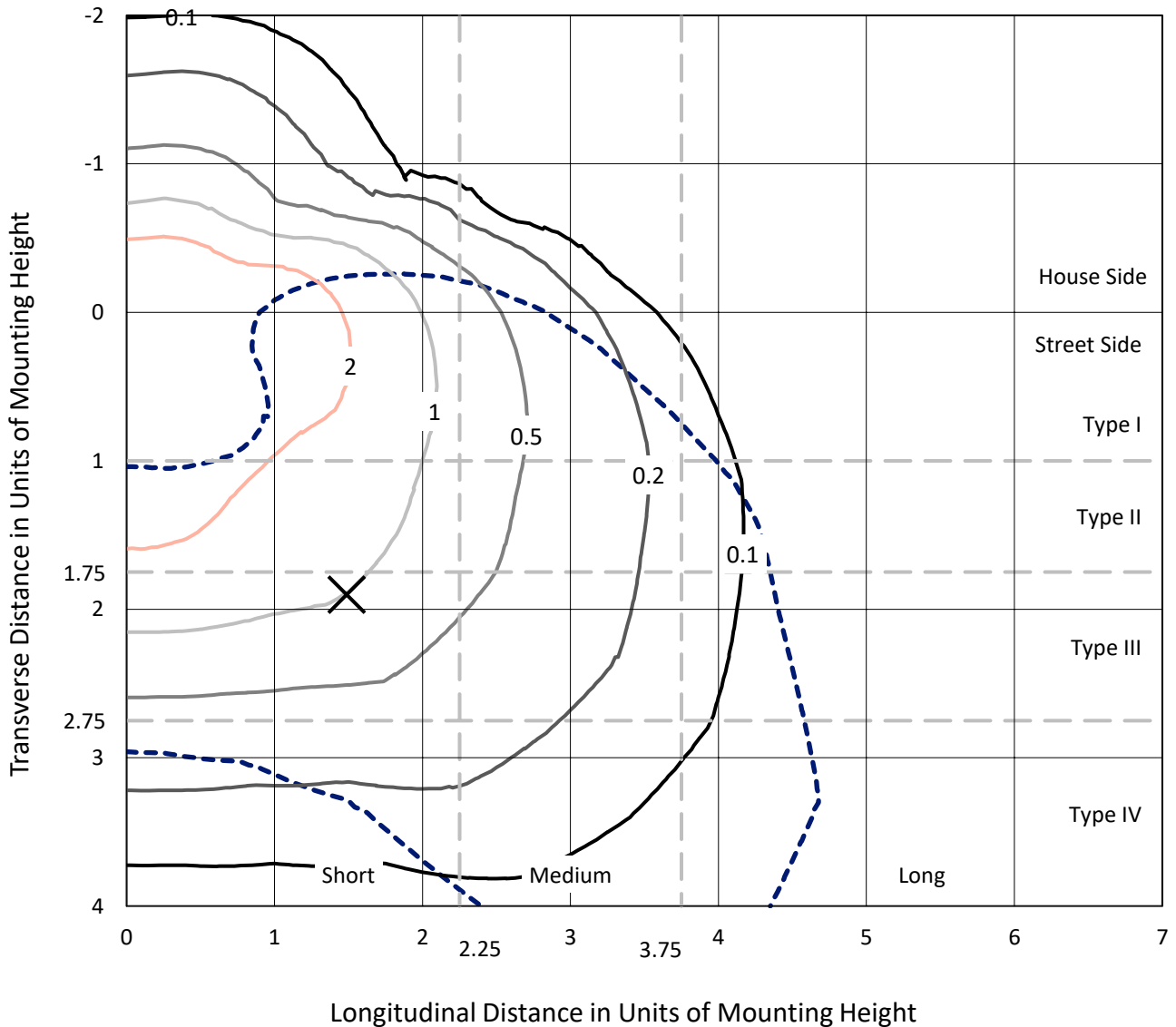
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

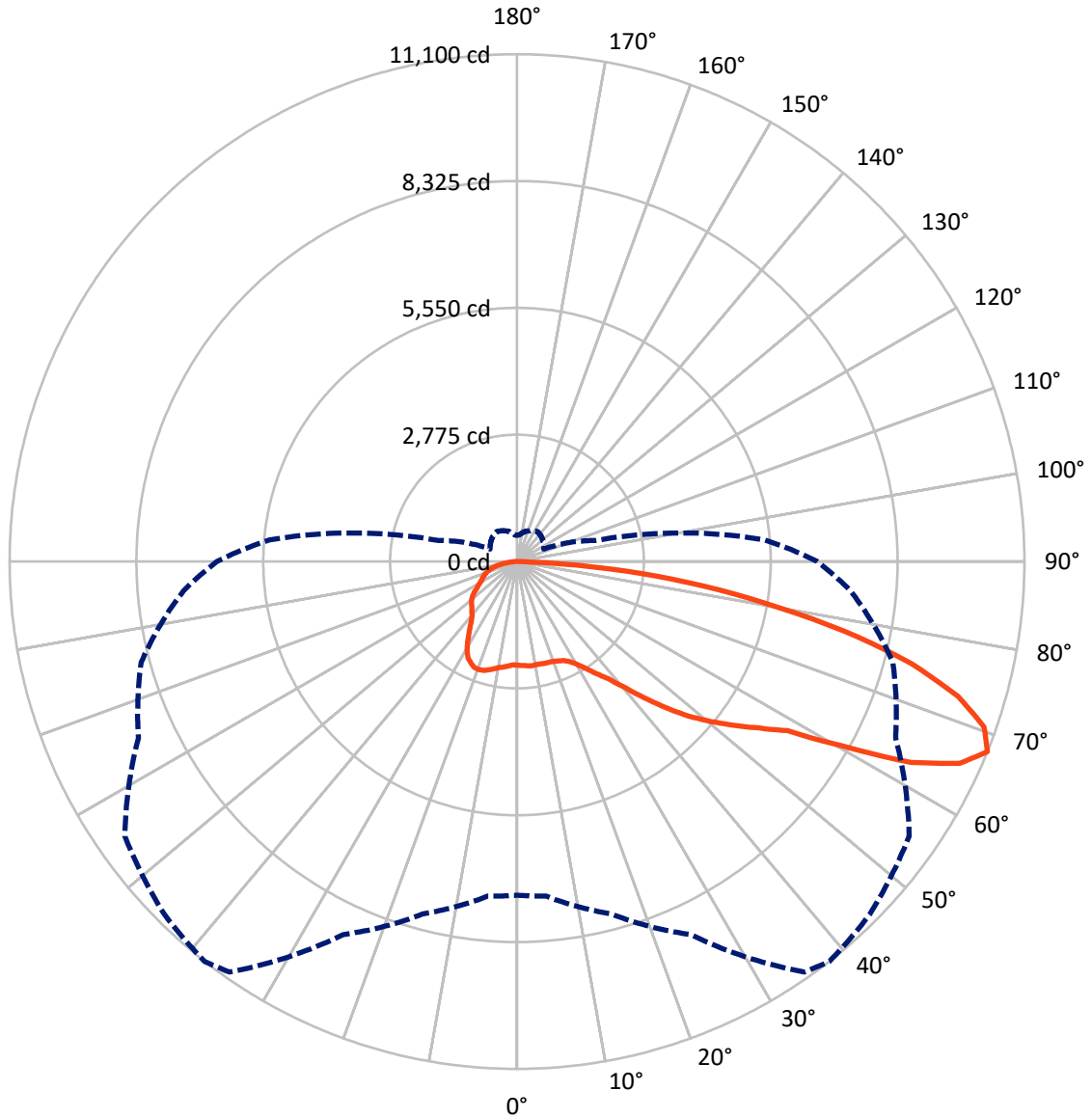
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4738.5	0.0	4738.5
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	15683.5	0.0	15683.5
	% Fixture	76.8	0.0	76.8
Total	Lumens	20422.0	0.0	20422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	1.1
10°-20°	678.9	3.3
20°-30°	1150.7	5.6
30°-40°	1763.4	8.6
40°-50°	2905.5	14.2
50°-60°	4152.8	20.3
60°-70°	5173.4	25.3
70°-80°	3686.6	18.1
80°-90°	690.6	3.4
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°	20422.0	100.0
0°-180°	20422.0	100.0

Coefficient of Utilization



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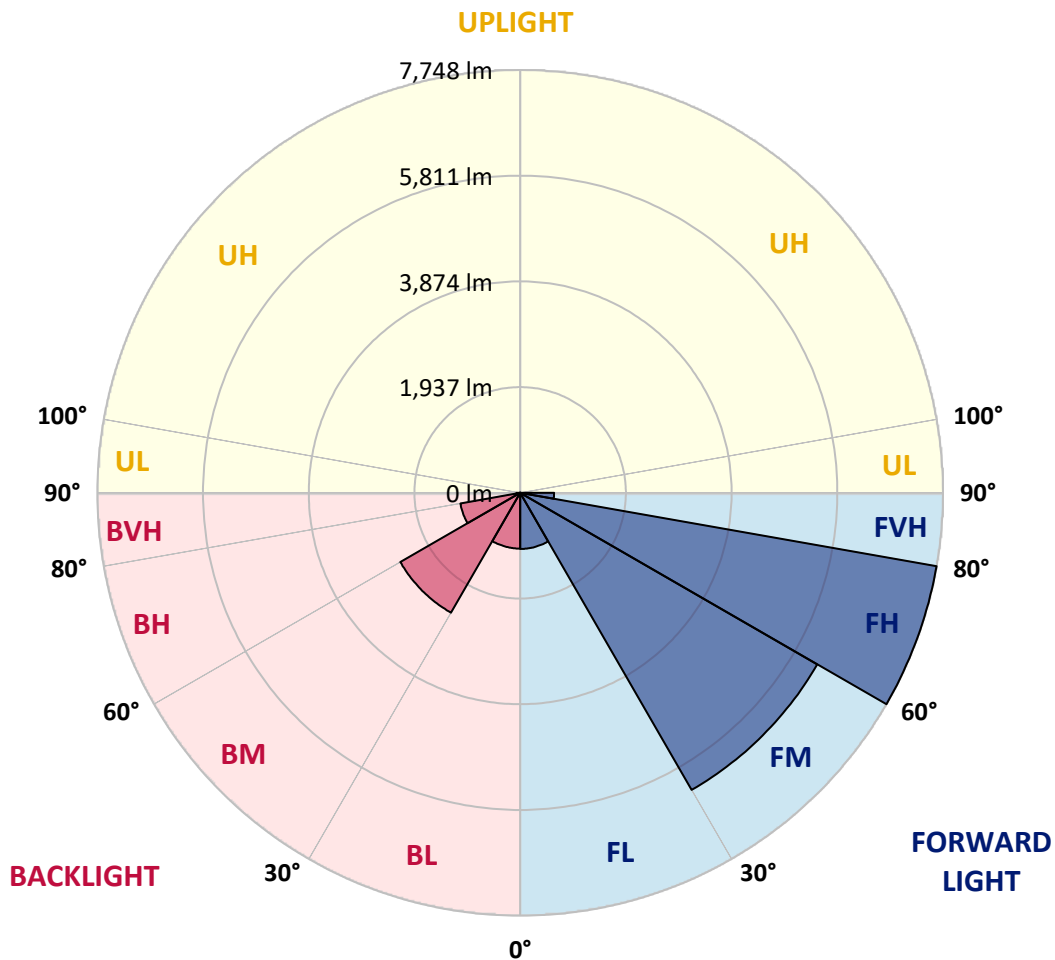
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1027.9	5.0			
FM (30°-60°)	6285.4	30.8			
FH (60°-80°)	7747.6	37.9			G4/12000
FVH (80°-90°)	622.5	3.0			G4/750
BL (0°-30°)	1021.8	5.0	B3/2500		
BM (30°-60°)	2536.3	12.4	B3/5000		
BH (60°-80°)	1112.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	68.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9
2.5°	2311.0	2320.5	2302.9	2300.1	2289.3	2275.7	2278.4	2267.6	2254.0	2259.4	2262.1
5°	2324.6	2324.6	2311.0	2297.4	2292.0	2289.3	2292.0	2279.8	2277.1	2286.6	2278.4
7.5°	2312.4	2320.5	2297.4	2297.4	2287.9	2304.2	2305.6	2290.6	2301.5	2301.5	2300.1
10°	2309.6	2312.4	2302.9	2283.9	2282.5	2292.0	2311.0	2316.4	2321.8	2320.5	2325.9
12.5°	2278.4	2275.7	2256.7	2262.1	2287.9	2297.4	2330.0	2344.9	2365.3	2370.7	2373.4
15°	2239.1	2249.9	2251.3	2267.6	2294.7	2309.6	2342.2	2372.1	2416.8	2427.7	2426.3
17.5°	2243.1	2247.2	2254.0	2263.5	2305.6	2312.4	2365.3	2397.8	2453.5	2491.5	2510.5
20°	2268.9	2260.8	2274.4	2298.8	2321.8	2327.3	2382.9	2433.1	2509.1	2559.3	2581.0
22.5°	2312.4	2313.7	2320.5	2320.5	2336.8	2361.2	2412.8	2452.1	2545.8	2616.3	2654.3
25°	2353.1	2355.8	2363.9	2361.2	2388.3	2399.2	2448.1	2507.8	2615.0	2697.7	2771.0
27.5°	2414.1	2422.3	2416.8	2418.2	2471.1	2482.0	2503.7	2583.8	2693.7	2804.9	2935.2
30°	2528.1	2528.1	2522.7	2528.1	2585.1	2612.2	2619.0	2697.7	2787.3	2921.6	3118.4
32.5°	2692.3	2693.7	2659.7	2686.9	2750.7	2798.2	2818.5	2943.4	3043.8	3108.9	3362.7
35°	3043.8	3028.9	2993.6	2914.9	2955.6	3013.9	3079.1	3237.8	3459.0	3701.9	3957.0
37.5°	3582.5	3581.2	3456.3	3298.9	3228.3	3258.2	3349.1	3586.6	3932.6	4539.2	4764.5
40°	4181.0	4195.9	4015.4	3818.6	3611.0	3613.7	3636.8	3934.0	4434.7	5311.3	5429.4
42.5°	4778.0	4753.6	4554.1	4365.5	4083.3	4065.6	4004.5	4285.4	4959.9	5928.8	5945.1
45°	5310.0	5297.8	5076.6	4885.2	4619.3	4551.4	4482.2	4661.3	5460.6	6428.2	6321.0
47.5°	5809.4	5825.7	5520.3	5348.0	5084.7	5050.8	4970.7	5084.7	5955.9	6820.3	6626.3
50°	6378.0	6384.7	6019.7	5806.7	5546.1	5502.7	5471.5	5616.7	6467.5	7194.9	6937.1
52.5°	7014.4	6881.4	6525.9	6232.8	5983.1	5950.5	5932.9	6084.8	7028.0	7523.3	7142.0
55°	7815.0	7637.3	7273.6	6787.8	6424.1	6429.5	6368.5	6546.2	7500.2	7749.9	7341.4
57.5°	8165.1	8205.9	8138.0	7695.6	7057.8	6979.1	6828.5	6965.5	7949.4	8015.9	7498.9
60°	8824.7	8982.1	8835.5	8588.5	8399.9	8193.6	7458.1	7509.7	8359.2	8310.3	7516.5
62.5°	8869.4	8923.7	9386.5	9425.8	9609.0	9678.2	9068.9	8127.2	8731.0	8458.3	7576.2
65°	8429.8	8490.8	9048.6	9538.4	10546.7	10641.7	10449.0	9257.5	9032.3	8538.3	7528.7
67.5°	7299.4	7349.6	7983.3	9006.5	10963.3	11100.4	10913.1	10473.4	9138.1	8511.2	7319.7
70°	6243.6	6272.1	6798.6	8230.3	10677.0	10838.5	10763.8	10519.6	9134.1	8351.1	6858.3
72.5°	4904.2	4987.0	5411.8	6825.8	9953.7	10089.4	10111.1	10235.9	8902.0	7824.5	5827.0
75°	3556.7	3601.5	4083.3	5303.2	8591.2	8915.6	9296.9	9767.8	8029.4	6642.6	4308.5
77.5°	2506.4	2549.8	3003.1	4020.8	6953.3	7322.4	8011.8	8288.6	6515.0	4978.9	2267.6
80°	1650.1	1644.7	2076.2	2975.9	5217.7	5476.9	5988.5	5618.0	3780.6	2164.4	247.0
82.5°	968.9	1023.2	1329.9	2045.0	3646.3	3790.1	3776.6	2958.3	1500.9	223.9	126.2
85°	559.1	579.4	784.4	1211.8	2009.7	2030.1	1818.4	1148.0	371.8	100.4	74.6
87.5°	249.7	240.2	312.1	400.3	366.4	272.8	169.6	47.5	28.5	19.0	12.2
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°	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9	2268.9
2.5°	2251.3	2244.5	2278.4	2259.4	2275.7	2266.2	2258.1	2268.9	2289.3	2306.9	2296.1
5°	2268.9	2273.0	2300.1	2277.1	2298.8	2294.7	2283.9	2296.1	2328.6	2344.9	2343.6
7.5°	2289.3	2292.0	2320.5	2311.0	2320.5	2312.4	2330.0	2321.8	2350.3	2361.2	2354.4
10°	2313.7	2317.8	2343.6	2344.9	2349.0	2343.6	2351.7	2355.8	2372.1	2393.8	2380.2
12.5°	2366.6	2376.1	2395.1	2415.5	2412.8	2391.1	2397.8	2376.1	2391.1	2397.8	2408.7
15°	2439.9	2463.0	2473.8	2502.3	2476.5	2464.3	2438.6	2395.1	2381.6	2374.8	2363.9
17.5°	2518.6	2540.3	2560.7	2597.3	2555.3	2522.7	2477.9	2396.5	2335.4	2313.7	2304.2
20°	2606.8	2627.2	2663.8	2688.2	2625.8	2555.3	2483.3	2363.9	2243.1	2160.4	2169.9
22.5°	2705.9	2750.7	2775.1	2768.3	2680.1	2583.8	2460.3	2278.4	2123.7	2000.2	1992.1
25°	2842.9	2868.7	2878.2	2815.8	2710.0	2563.4	2382.9	2176.6	1960.9	1822.5	1802.1
27.5°	2986.8	3013.9	2963.7	2847.0	2700.5	2515.9	2296.1	2003.0	1772.3	1639.3	1624.3
30°	3171.3	3164.6	3022.1	2837.5	2646.2	2401.9	2137.3	1825.2	1612.1	1488.6	1481.9
32.5°	3372.2	3322.0	3069.6	2791.4	2543.0	2252.6	1935.1	1656.9	1492.7	1369.2	1363.8
35°	3847.1	3616.4	3138.8	2733.0	2391.1	2046.4	1747.8	1530.7	1397.7	1258.0	1230.8
37.5°	4544.6	4172.8	3281.3	2673.3	2217.4	1842.8	1591.8	1437.1	1310.9	1161.6	1135.8
40°	5194.6	4738.7	3530.9	2628.5	2061.3	1678.6	1484.6	1371.9	1249.8	1100.5	1068.0
42.5°	5656.0	5178.4	3830.8	2555.3	1905.2	1548.4	1439.8	1347.5	1233.5	1095.1	1069.3
45°	6027.9	5558.3	4128.0	2472.5	1722.0	1437.1	1393.7	1327.2	1213.2	1078.8	1049.0
47.5°	6289.8	5797.2	4334.3	2378.8	1547.0	1369.2	1354.3	1294.6	1182.0	1055.8	1036.8
50°	6559.8	6064.5	4475.4	2282.5	1389.6	1317.7	1300.0	1221.3	1118.2	1005.5	985.2
52.5°	6736.2	6194.8	4556.8	2263.5	1255.2	1247.1	1225.4	1150.7	1053.0	930.9	906.5
55°	6870.6	6310.1	4544.6	2152.2	1134.5	1154.8	1141.2	1085.6	1000.1	880.7	864.4
57.5°	6903.1	6327.8	4433.4	1807.5	1020.5	1031.3	1038.1	1049.0	966.2	867.1	840.0
60°	6996.8	6245.0	4236.6	1300.0	886.1	913.3	967.6	977.0	920.1	807.4	791.1
62.5°	6937.1	6189.3	3809.1	916.0	791.1	846.8	898.3	898.3	819.6	715.1	704.3
65°	6832.6	5969.5	2980.0	721.9	740.9	797.9	845.4	812.9	745.0	647.3	640.5
67.5°	6566.6	5433.5	1779.0	650.0	705.6	759.9	793.9	745.0	681.2	584.9	574.0
70°	5802.6	4330.2	677.1	616.1	670.4	708.4	730.1	679.9	617.4	521.1	511.6
72.5°	4607.1	2708.6	430.2	574.0	625.6	659.5	673.1	614.7	515.7	405.7	394.9
75°	2772.4	773.5	373.2	496.7	550.9	609.3	586.2	510.2	435.6	340.6	333.8
77.5°	701.6	234.8	332.5	400.3	447.8	517.0	515.7	460.0	380.0	278.2	267.3
80°	168.3	164.2	270.0	295.8	337.9	396.2	390.8	382.7	301.3	192.7	158.8
82.5°	107.2	114.0	183.2	165.6	192.7	230.7	261.9	247.0	225.3	118.1	105.8
85°	71.9	90.9	89.6	62.4	86.8	130.3	169.6	154.7	127.6	73.3	65.1
87.5°	10.9	12.2	16.3	24.4	38.0	63.8	84.1	82.8	62.4	46.1	43.4
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)