

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: P509848

Luminaire Tested: **VERD-M-CA3-150-740-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-740-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 940mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19902 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

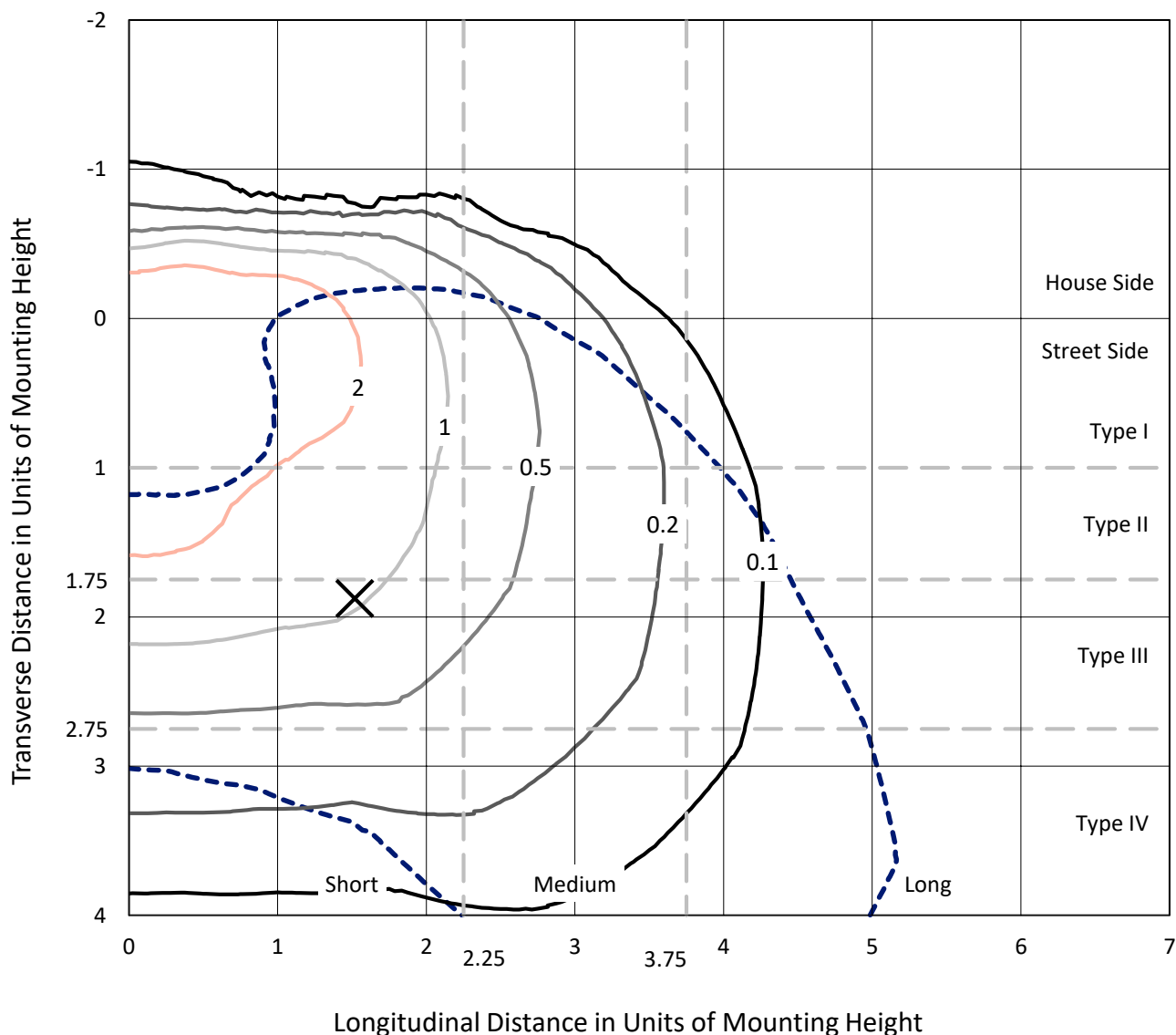
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

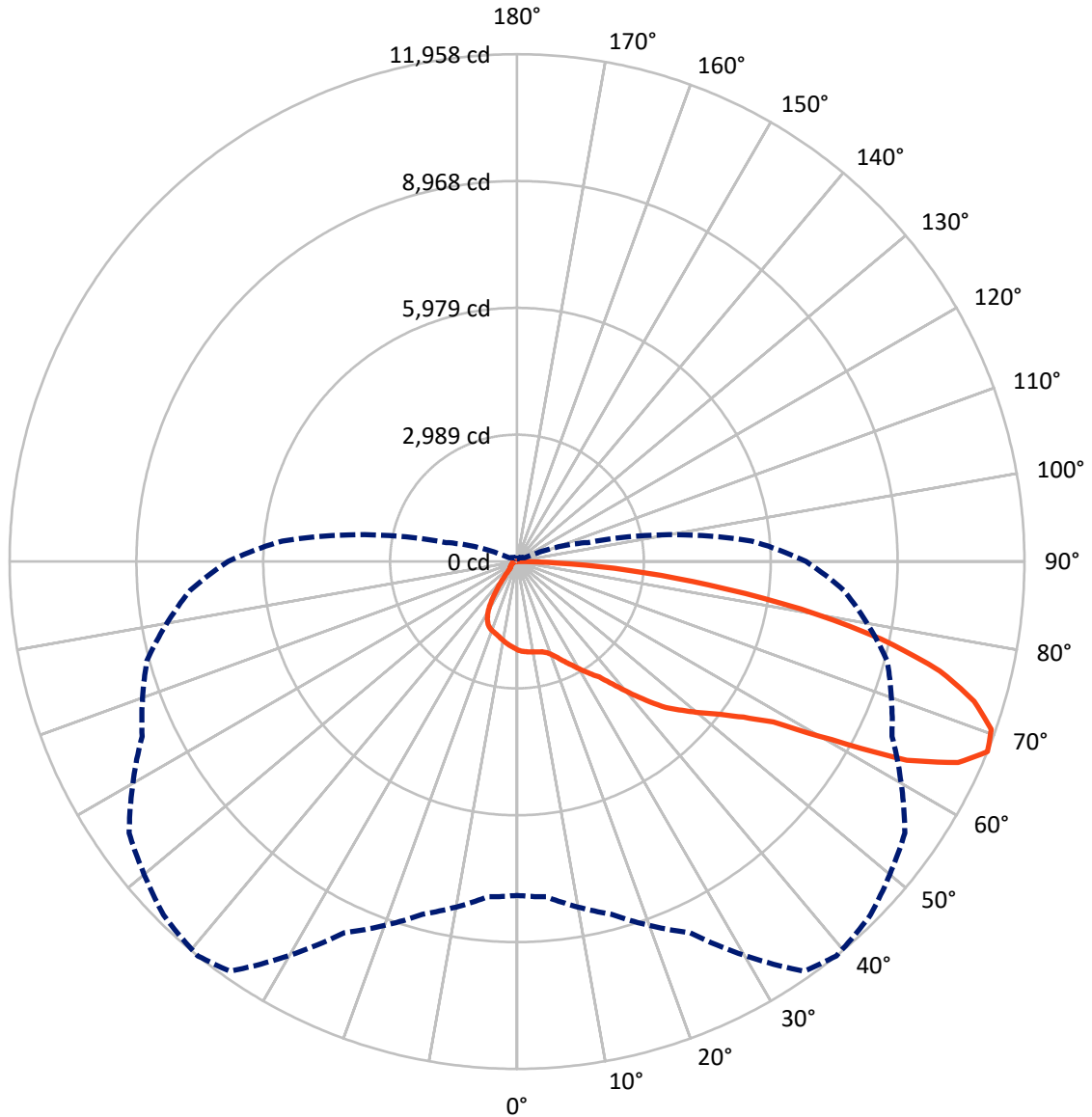
✕ Max cd
 - - - 1/2 Max cd



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 39-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3195.8	0.0	3195.8
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	16706.2	0.0	16706.2
	% Fixture	83.9	0.0	83.9
Total	Lumens	19902.0	0.0	19902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	1.0
10°-20°	585.5	2.9
20°-30°	1037.4	5.2
30°-40°	1661.6	8.3
40°-50°	2665.5	13.4
50°-60°	3896.2	19.6
60°-70°	5192.0	26.1
70°-80°	3896.1	19.6
80°-90°	770.9	3.9
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°	19902.0	100.0
0°-180°	19902.0	100.0

Coefficient of Utilization



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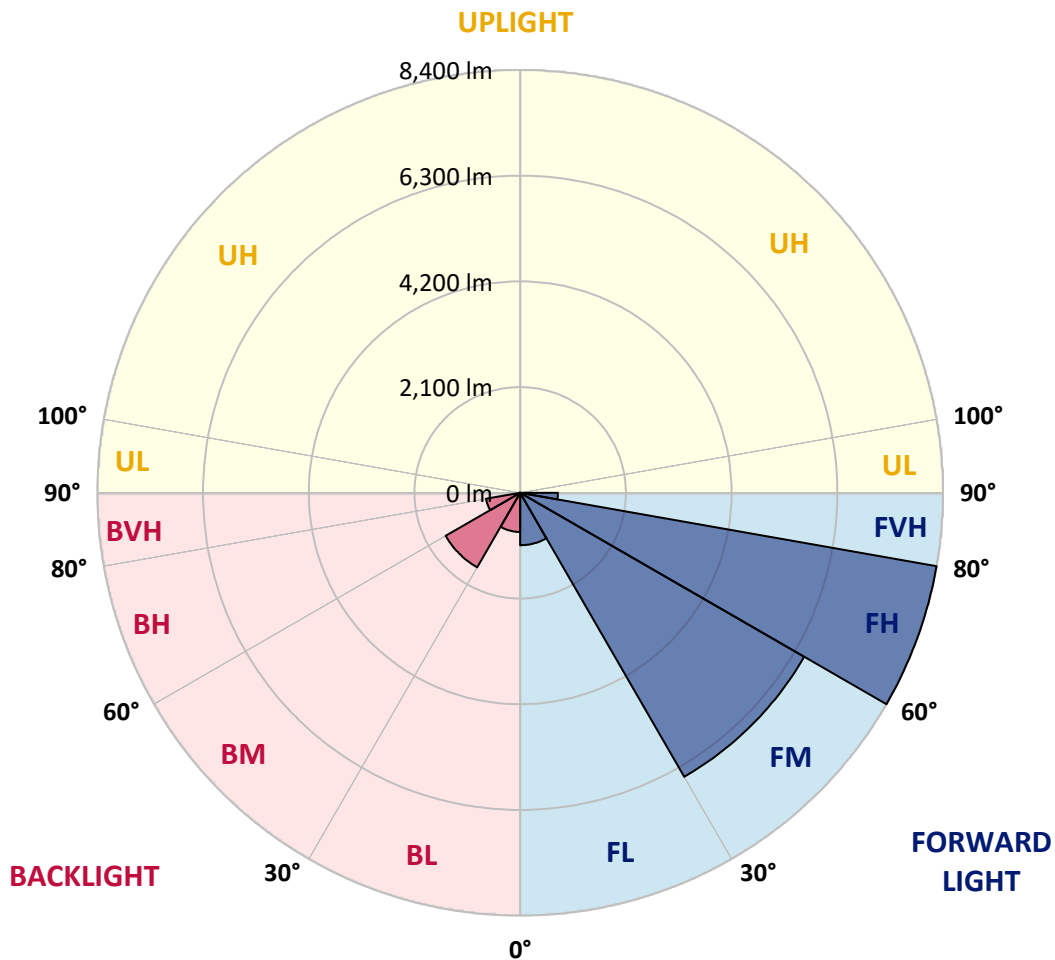
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.5	5.2			
FM (30°-60°)	6514.1	32.7			
FH (60°-80°)	8400.0	42.2			G4/12000
FVH (80°-90°)	750.7	3.8			G5
BL (0°-30°)	778.2	3.9	B2/1000		
BM (30°-60°)	1709.3	8.6	B2/2500		
BH (60°-80°)	688.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	20.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0
2.5°	2086.0	2114.0	2114.0	2106.0	2111.0	2115.0	2085.0	2093.0	2090.0	2089.0	2095.0
5°	2102.0	2133.0	2131.0	2121.0	2125.0	2133.0	2105.0	2117.0	2113.0	2103.0	2105.0
7.5°	2102.0	2128.0	2134.0	2123.0	2142.0	2152.0	2122.0	2133.0	2138.0	2131.0	2124.0
10°	2094.0	2117.0	2125.0	2123.0	2148.0	2163.9	2135.0	2165.9	2169.9	2169.9	2159.0
12.5°	2091.0	2117.0	2128.0	2137.0	2165.9	2182.9	2165.9	2195.9	2215.9	2214.9	2207.9
15°	2093.0	2122.0	2139.0	2154.0	2184.9	2205.9	2198.9	2244.9	2268.9	2275.9	2275.9
17.5°	2143.0	2177.9	2185.9	2201.9	2222.9	2254.9	2245.9	2304.9	2342.9	2354.9	2371.9
20°	2282.9	2309.9	2319.9	2311.9	2320.9	2340.9	2322.9	2379.9	2436.9	2468.9	2496.9
22.5°	2461.9	2481.9	2472.9	2464.9	2459.9	2464.9	2442.9	2480.9	2544.9	2590.9	2638.9
25°	2597.9	2641.9	2634.9	2612.9	2605.9	2611.9	2583.9	2630.9	2689.9	2737.9	2809.9
27.5°	2762.9	2789.9	2770.9	2762.9	2767.9	2766.9	2749.9	2794.9	2848.9	2908.9	3014.9
30°	2941.9	2964.9	2945.9	2937.9	2946.9	2952.9	2933.9	3012.9	3069.9	3134.9	3271.9
32.5°	3235.9	3290.9	3238.9	3134.9	3136.9	3145.9	3147.9	3253.9	3357.9	3408.9	3589.9
35°	3654.9	3698.9	3629.9	3503.9	3346.9	3340.9	3356.9	3514.9	3723.9	3955.9	4167.9
37.5°	4045.9	4109.9	4047.9	3900.9	3709.9	3663.9	3580.9	3768.9	4097.9	4596.9	4860.9
40°	4514.9	4562.9	4439.9	4311.9	4120.9	4055.9	3922.9	4042.9	4493.9	5265.9	5447.9
42.5°	4891.9	4920.9	4818.9	4684.9	4518.9	4469.9	4332.9	4343.9	4916.9	5851.9	5968.9
45°	5240.9	5271.9	5187.9	5073.9	4968.9	4909.9	4809.9	4863.9	5412.9	6469.9	6398.9
47.5°	5505.9	5536.9	5469.9	5388.9	5279.9	5239.9	5241.9	5435.9	6019.9	6963.8	6784.8
50°	5939.9	5927.9	5752.9	5664.9	5579.9	5600.9	5622.9	5898.9	6631.8	7387.8	7141.8
52.5°	6696.8	6637.8	6276.9	6046.9	5941.9	5977.9	6013.9	6380.9	7326.8	7774.8	7415.8
55°	7552.8	7492.8	7185.8	6693.8	6415.9	6473.9	6442.9	6857.8	7910.8	8146.8	7641.8
57.5°	8188.8	8287.8	8170.8	7902.8	7206.8	7130.8	7061.8	7339.8	8382.8	8518.8	7858.8
60°	8741.8	8879.8	9088.8	9015.8	8719.8	8521.8	7888.8	7902.8	8836.8	8776.8	7944.8
62.5°	9281.8	9362.8	9720.8	9799.8	10166.8	10308.8	9665.8	8630.8	9275.8	8955.8	8002.8
65°	8741.8	8845.8	9468.8	10043.8	11229.7	11419.7	11193.7	9948.8	9598.8	9061.8	7935.8
67.5°	7868.8	7931.8	8604.8	9650.8	11785.7	11957.7	11781.7	11158.7	9749.8	9029.8	7727.8
70°	6727.8	6826.8	7487.8	8889.8	11765.7	11857.7	11704.7	11304.7	9692.8	8845.8	7202.8
72.5°	5563.9	5619.9	6179.9	7578.8	11190.7	11267.7	11186.7	11080.7	9500.8	8332.8	6193.9
75°	4181.9	4193.9	4767.9	5984.9	9894.8	10296.8	10395.8	10694.8	8765.8	7142.8	4580.9
77.5°	2803.9	2922.9	3473.9	4573.9	8122.8	8765.8	9234.8	9452.8	7323.8	5330.9	2435.9
80°	1505.0	1535.0	2129.0	3245.9	6172.9	6787.8	7232.8	7236.8	5121.9	2640.9	544.0
82.5°	697.0	668.0	1072.0	2054.0	4275.9	4549.9	4847.9	4060.9	2051.0	451.0	139.0
85°	309.0	326.0	485.0	1001.0	2372.9	2647.9	2609.9	1798.0	360.0	122.0	85.0
87.5°	115.0	121.0	188.0	404.0	847.0	924.0	831.0	346.0	47.0	43.0	26.0
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°	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0	2084.0
2.5°	2088.0	2088.0	2086.0	2059.0	2053.0	2040.0	2029.0	2037.0	2028.0	2034.0	2028.0
5°	2097.0	2092.0	2080.0	2048.0	2033.0	2004.0	1982.0	1987.0	1975.0	1975.0	1974.0
7.5°	2118.0	2108.0	2087.0	2036.0	2008.0	1966.0	1932.0	1921.0	1909.0	1895.0	1893.0
10°	2152.0	2138.0	2110.0	2040.0	1986.0	1930.0	1871.0	1848.0	1818.0	1796.0	1792.0
12.5°	2198.9	2177.9	2140.0	2055.0	1984.0	1895.0	1816.0	1771.0	1735.0	1703.0	1696.0
15°	2266.9	2245.9	2200.9	2085.0	1985.0	1862.0	1758.0	1683.0	1621.0	1591.0	1592.0
17.5°	2365.9	2350.9	2281.9	2148.0	2004.0	1845.0	1710.0	1591.0	1495.0	1445.0	1438.0
20°	2492.9	2482.9	2398.9	2230.9	2048.0	1848.0	1658.0	1493.0	1352.0	1243.0	1219.0
22.5°	2640.9	2625.9	2522.9	2302.9	2082.0	1840.0	1601.0	1385.0	1173.0	1031.0	1003.0
25°	2805.9	2797.9	2636.9	2365.9	2086.0	1806.0	1519.0	1245.0	979.0	827.0	803.0
27.5°	3016.9	2969.9	2739.9	2399.9	2077.0	1739.0	1402.0	1053.0	778.0	673.0	647.0
30°	3247.9	3152.9	2839.9	2425.9	2033.0	1632.0	1235.0	831.0	579.0	486.0	473.0
32.5°	3503.9	3361.9	2933.9	2423.9	1955.0	1467.0	1018.0	577.0	391.0	353.0	340.0
35°	3966.9	3725.9	3046.9	2390.9	1824.0	1271.0	719.0	376.0	290.0	267.0	264.0
37.5°	4609.9	4200.9	3198.9	2327.9	1655.0	1043.0	469.0	257.0	248.0	249.0	248.0
40°	5136.9	4730.9	3409.9	2232.9	1442.0	745.0	281.0	229.0	234.0	237.0	238.0
42.5°	5652.9	5162.9	3670.9	2114.0	1219.0	484.0	228.0	219.0	215.0	220.0	222.0
45°	6067.9	5539.9	3916.9	1975.0	958.0	286.0	221.0	203.0	196.0	198.0	201.0
47.5°	6399.9	5839.9	4064.9	1813.0	700.0	216.0	215.0	189.0	179.0	177.0	176.0
50°	6712.8	6096.9	4159.9	1617.0	446.0	208.0	199.0	173.0	161.0	159.0	159.0
52.5°	6925.8	6264.9	4191.9	1385.0	266.0	203.0	188.0	160.0	144.0	147.0	149.0
55°	7133.8	6434.9	4125.9	1083.0	204.0	190.0	176.0	144.0	131.0	143.0	147.0
57.5°	7232.8	6459.9	3976.9	753.0	198.0	172.0	159.0	129.0	119.0	126.0	126.0
60°	7312.8	6442.9	3768.9	477.0	193.0	160.0	145.0	117.0	105.0	101.0	98.0
62.5°	7259.8	6374.9	3350.9	311.0	179.0	146.0	132.0	108.0	91.0	80.0	79.0
65°	7146.8	6134.9	2674.9	245.0	166.0	139.0	120.0	97.0	80.0	67.0	66.0
67.5°	6813.8	5550.9	1731.0	203.0	159.0	134.0	111.0	90.0	71.0	58.0	57.0
70°	6015.9	4483.9	531.0	182.0	165.0	129.0	109.0	82.0	63.0	51.0	49.0
72.5°	4756.9	2995.9	197.0	151.0	142.0	124.0	106.0	74.0	54.0	43.0	41.0
75°	3063.9	979.0	167.0	117.0	121.0	118.0	98.0	68.0	46.0	35.0	34.0
77.5°	868.0	205.0	152.0	86.0	107.0	114.0	86.0	57.0	41.0	30.0	29.0
80°	182.0	146.0	139.0	61.0	80.0	74.0	58.0	44.0	39.0	26.0	26.0
82.5°	119.0	116.0	119.0	42.0	53.0	54.0	46.0	38.0	34.0	24.0	24.0
85°	84.0	106.0	57.0	30.0	25.0	23.0	27.0	33.0	30.0	20.0	20.0
87.5°	29.0	17.0	12.0	12.0	11.0	11.0	13.0	15.0	16.0	16.0	15.0
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)