

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: P509840

Luminaire Tested: **VERD-M-CA3-150-730-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509840
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-CA3-150-730-U-T4-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 940mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19542 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

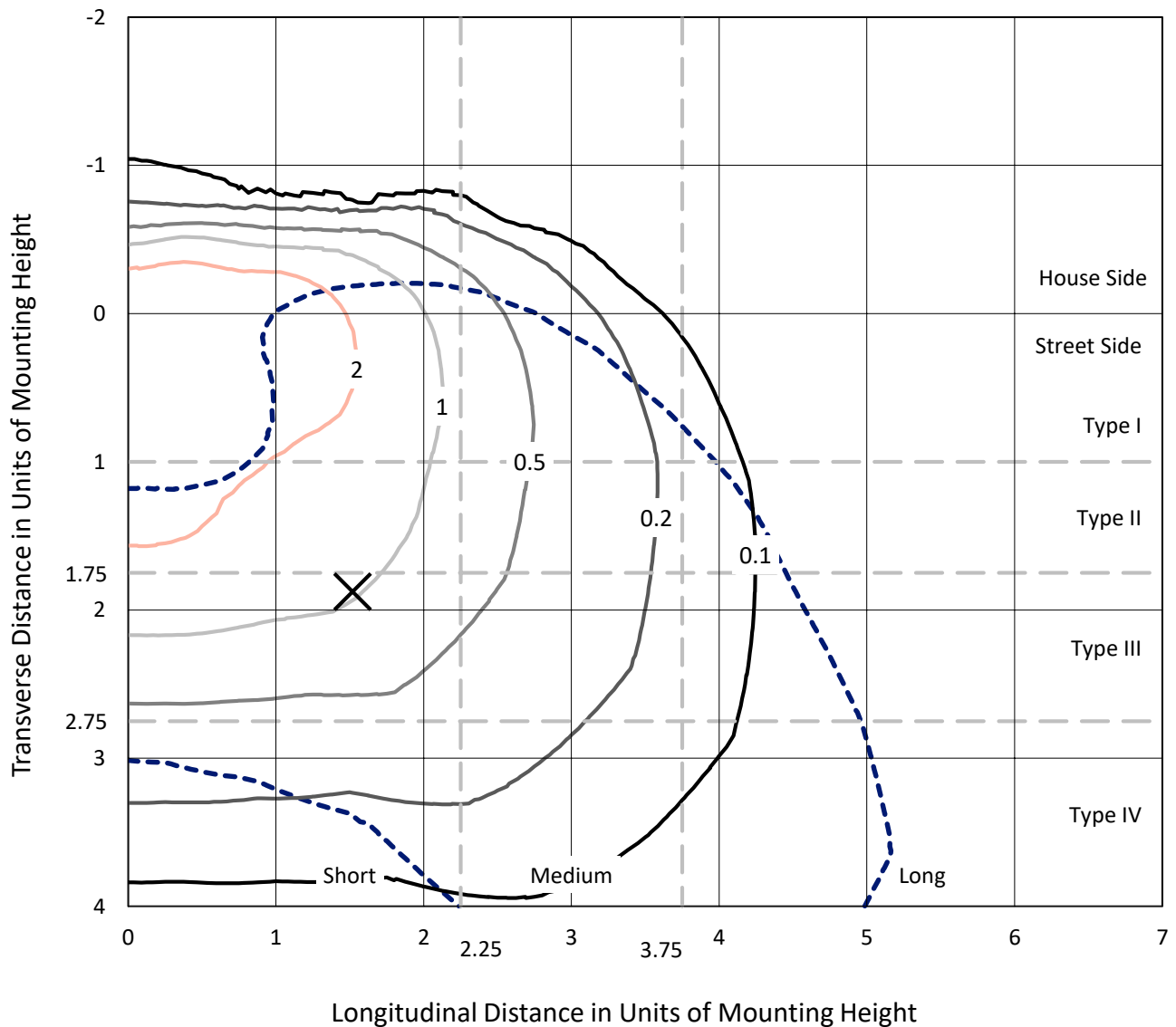
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

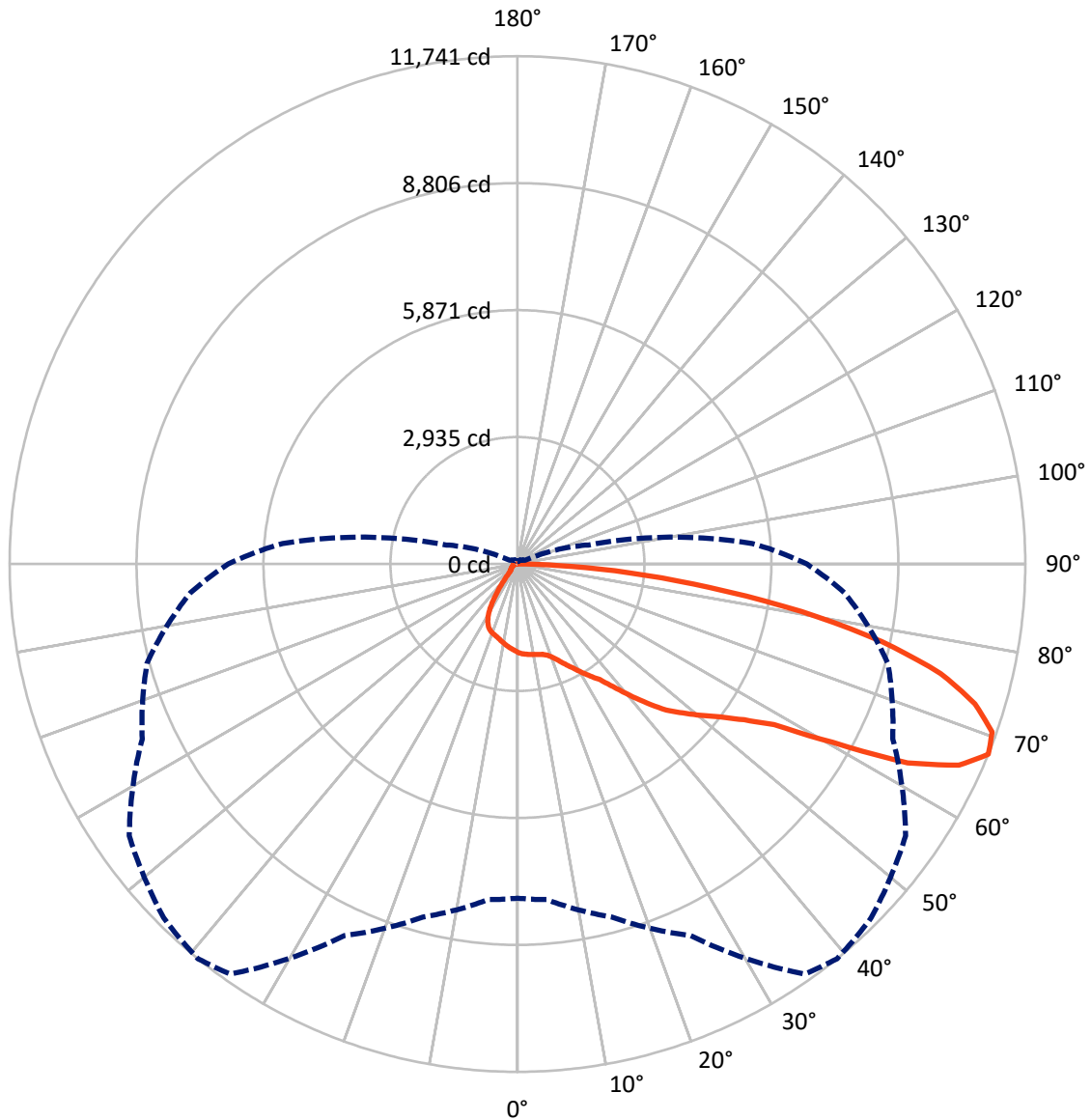
× Max cd
 - - - 1/2 Max cd



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	3138.0	0.0	3138.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	16404.0	0.0	16404.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	19542.0	0.0	19542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.0
10°-20°	575.0	2.9
20°-30°	1018.6	5.2
30°-40°	1631.5	8.3
40°-50°	2617.3	13.4
50°-60°	3825.8	19.6
60°-70°	5098.0	26.1
70°-80°	3825.6	19.6
80°-90°	756.9	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°	19542.0	100.0
0°-180°	19542.0	100.0

Coefficient of Utilization



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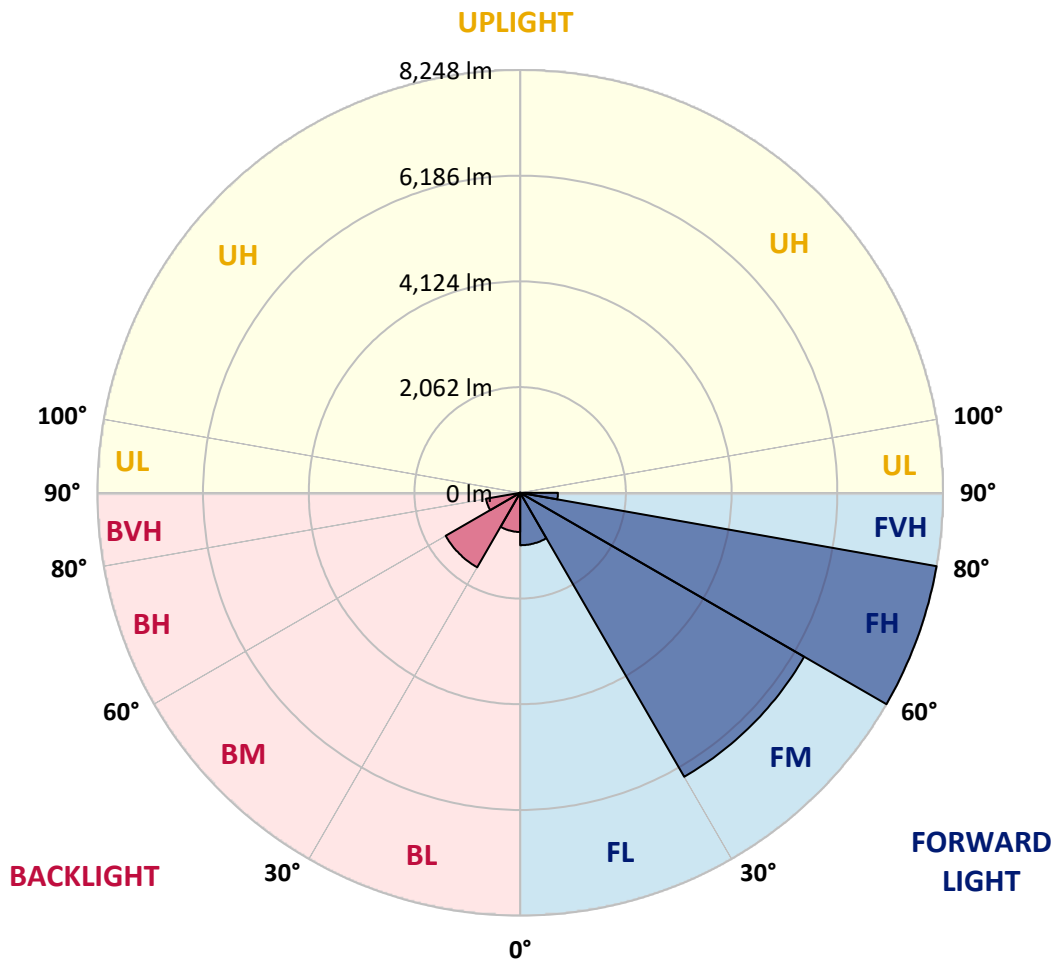
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1022.7	5.2			
FM	(30°-60°)	6396.3	32.7			
FH	(60°-80°)	8248.0	42.2			G4/12000
FVH	(80°-90°)	737.1	3.8			G4/750
BL	(0°-30°)	764.1	3.9	B2/1000		
BM	(30°-60°)	1678.4	8.6	B2/2500		
BH	(60°-80°)	675.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	19.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2048.2	2075.7	2075.7	2067.9	2072.8	2076.7	2047.2	2055.1	2052.1	2051.2	2057.1
5°	2063.9	2094.4	2092.4	2082.6	2086.5	2094.4	2066.9	2078.7	2074.7	2064.9	2066.9
7.5°	2063.9	2089.5	2095.4	2084.5	2103.2	2113.0	2083.6	2094.4	2099.3	2092.4	2085.5
10°	2056.1	2078.7	2086.5	2084.5	2109.1	2124.8	2096.3	2126.8	2130.7	2130.7	2119.9
12.5°	2053.1	2078.7	2089.5	2098.3	2126.8	2143.5	2126.8	2156.2	2175.9	2174.9	2168.0
15°	2055.1	2083.6	2100.3	2115.0	2145.4	2166.0	2159.2	2204.3	2227.9	2234.8	2234.8
17.5°	2104.2	2138.6	2146.4	2162.1	2182.7	2214.2	2205.3	2263.3	2300.6	2312.3	2329.0
20°	2241.7	2268.2	2278.0	2270.1	2279.0	2298.6	2280.9	2336.9	2392.9	2424.3	2451.8
22.5°	2417.4	2437.0	2428.2	2420.4	2415.4	2420.4	2398.8	2436.1	2498.9	2544.1	2591.2
25°	2550.9	2594.1	2587.3	2565.7	2558.8	2564.7	2537.2	2583.3	2641.3	2688.4	2759.1
27.5°	2713.0	2739.5	2720.8	2713.0	2717.9	2716.9	2700.2	2744.4	2797.4	2856.3	2960.4
30°	2888.7	2911.3	2892.6	2884.8	2893.6	2899.5	2880.9	2958.4	3014.4	3078.2	3212.7
32.5°	3177.4	3231.4	3180.3	3078.2	3080.2	3089.0	3091.0	3195.1	3297.2	3347.3	3525.0
35°	3588.8	3632.0	3564.3	3440.5	3286.4	3280.5	3296.2	3451.3	3656.6	3884.4	4092.5
37.5°	3972.7	4035.6	3974.7	3830.3	3642.8	3597.6	3516.1	3700.7	4023.8	4513.7	4773.0
40°	4433.2	4480.4	4359.6	4233.9	4046.4	3982.5	3851.9	3969.8	4412.6	5170.6	5349.3
42.5°	4803.4	4831.9	4731.7	4600.1	4437.2	4389.0	4254.5	4265.3	4827.9	5746.0	5860.9
45°	5146.1	5176.5	5094.0	4982.1	4879.0	4821.1	4722.9	4775.9	5315.0	6352.8	6283.1
47.5°	5406.3	5436.7	5370.9	5291.4	5184.4	5145.1	5147.1	5337.5	5911.0	6837.9	6662.1
50°	5832.4	5820.6	5648.8	5562.4	5478.9	5499.6	5521.2	5792.2	6511.9	7254.2	7012.6
52.5°	6575.7	6517.8	6163.3	5937.5	5834.4	5869.7	5905.1	6265.4	7194.3	7634.2	7281.7
55°	7416.2	7357.3	7055.9	6572.8	6299.8	6356.7	6326.3	6733.8	7767.7	7999.4	7503.6
57.5°	8040.7	8137.9	8023.0	7759.9	7076.5	7001.8	6934.1	7207.1	8231.2	8364.7	7716.7
60°	8583.7	8719.2	8924.4	8852.7	8562.1	8367.7	7746.1	7759.9	8677.0	8618.0	7801.1
62.5°	9113.9	9193.4	9544.9	9622.5	9982.9	10122.3	9490.9	8474.7	9108.0	8793.8	7858.1
65°	8583.7	8685.8	9297.5	9862.1	11026.6	11213.2	10991.3	9768.8	9425.1	8897.9	7792.3
67.5°	7726.5	7788.3	8449.2	9476.2	11572.5	11741.4	11568.6	10956.9	9573.4	8866.5	7588.0
70°	6606.1	6703.4	7352.4	8729.0	11552.9	11643.2	11493.0	11100.3	9517.4	8685.8	7072.5
72.5°	5463.2	5518.2	6068.1	7441.7	10988.3	11063.9	10984.4	10880.3	9328.9	8182.1	6081.8
75°	4106.3	4118.0	4681.6	5876.6	9715.8	10110.5	10207.7	10501.3	8607.2	7013.6	4498.0
77.5°	2753.2	2870.1	3411.1	4491.2	7975.9	8607.2	9067.7	9281.8	7191.4	5234.4	2391.9
80°	1477.7	1507.2	2090.4	3187.2	6061.2	6665.1	7102.0	7105.9	5029.2	2593.2	534.1
82.5°	684.4	655.9	1052.6	2016.8	4198.6	4467.6	4760.2	3987.4	2013.9	442.8	136.5
85°	303.4	320.1	476.2	982.9	2330.0	2600.0	2562.7	1765.4	353.5	119.8	83.5
87.5°	112.9	118.8	184.6	396.7	831.7	907.3	815.9	339.7	46.1	42.2	25.5
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°	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2050.2	2050.2	2048.2	2021.7	2015.8	2003.1	1992.3	2000.1	1991.3	1997.2	1991.3
5°	2059.0	2054.1	2042.3	2010.9	1996.2	1967.7	1946.1	1951.0	1939.2	1939.2	1938.2
7.5°	2079.6	2069.8	2049.2	1999.1	1971.6	1930.4	1897.0	1886.2	1874.4	1860.7	1858.7
10°	2113.0	2099.3	2071.8	2003.1	1950.0	1895.0	1837.1	1814.5	1785.1	1763.5	1759.5
12.5°	2159.2	2138.6	2101.2	2017.8	1948.1	1860.7	1783.1	1738.9	1703.6	1672.2	1665.3
15°	2225.9	2205.3	2161.1	2047.2	1949.0	1828.3	1726.2	1652.5	1591.6	1562.2	1563.2
17.5°	2323.1	2308.4	2240.7	2109.1	1967.7	1811.6	1679.0	1562.2	1467.9	1418.8	1412.0
20°	2447.8	2438.0	2355.6	2190.6	2010.9	1814.5	1628.0	1466.0	1327.5	1220.5	1196.9
22.5°	2593.2	2578.4	2477.3	2261.3	2044.3	1806.7	1572.0	1359.9	1151.8	1012.3	984.8
25°	2755.2	2747.3	2589.2	2323.1	2048.2	1773.3	1491.5	1222.5	961.3	812.0	788.5
27.5°	2962.4	2916.2	2690.4	2356.5	2039.4	1707.5	1376.6	1033.9	763.9	660.8	635.3
30°	3189.2	3095.9	2788.6	2382.1	1996.2	1602.4	1212.6	815.9	568.5	477.2	464.4
32.5°	3440.5	3301.1	2880.9	2380.1	1919.6	1440.4	999.6	566.5	383.9	346.6	333.8
35°	3895.2	3658.5	2991.8	2347.7	1791.0	1248.0	706.0	369.2	284.7	262.2	259.2
37.5°	4526.5	4124.9	3141.1	2285.8	1625.0	1024.1	460.5	252.3	243.5	244.5	243.5
40°	5044.0	4645.3	3348.2	2192.6	1415.9	731.5	275.9	224.9	229.8	232.7	233.7
42.5°	5550.6	5069.5	3604.5	2075.7	1196.9	475.2	223.9	215.0	211.1	216.0	218.0
45°	5958.1	5439.7	3846.1	1939.2	940.6	280.8	217.0	199.3	192.5	194.4	197.4
47.5°	6284.1	5734.2	3991.4	1780.2	687.3	212.1	211.1	185.6	175.8	173.8	172.8
50°	6591.4	5986.6	4084.7	1587.7	437.9	204.2	195.4	169.9	158.1	156.1	156.1
52.5°	6800.6	6151.5	4116.1	1359.9	261.2	199.3	184.6	157.1	141.4	144.3	146.3
55°	7004.8	6318.5	4051.3	1063.4	200.3	186.6	172.8	141.4	128.6	140.4	144.3
57.5°	7102.0	6343.0	3905.0	739.4	194.4	168.9	156.1	126.7	116.8	123.7	123.7
60°	7180.6	6326.3	3700.7	468.4	189.5	157.1	142.4	114.9	103.1	99.2	96.2
62.5°	7128.5	6259.5	3290.3	305.4	175.8	143.4	129.6	106.0	89.4	78.6	77.6
65°	7017.6	6023.9	2626.6	240.6	163.0	136.5	117.8	95.2	78.6	65.8	64.8
67.5°	6690.6	5450.5	1699.6	199.3	156.1	131.6	109.0	88.4	69.7	56.9	56.0
70°	5907.0	4402.8	521.4	178.7	162.0	126.7	107.0	80.5	61.9	50.1	48.1
72.5°	4670.8	2941.7	193.4	148.3	139.4	121.8	104.1	72.7	53.0	42.2	40.3
75°	3008.5	961.3	164.0	114.9	118.8	115.9	96.2	66.8	45.2	34.4	33.4
77.5°	852.3	201.3	149.2	84.4	105.1	111.9	84.4	56.0	40.3	29.5	28.5
80°	178.7	143.4	136.5	59.9	78.6	72.7	56.9	43.2	38.3	25.5	25.5
82.5°	116.8	113.9	116.8	41.2	52.0	53.0	45.2	37.3	33.4	23.6	23.6
85°	82.5	104.1	56.0	29.5	24.5	22.6	26.5	32.4	29.5	19.6	19.6
87.5°	28.5	16.7	11.8	11.8	10.8	10.8	12.8	14.7	15.7	15.7	14.7
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)