

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: P509269

Luminaire Tested: **VERD-CA2-60-740-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509269  
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-CA2-60-740-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 850mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9171 lumens  
Efficiency: N/A  
Efficacy: 144.7 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

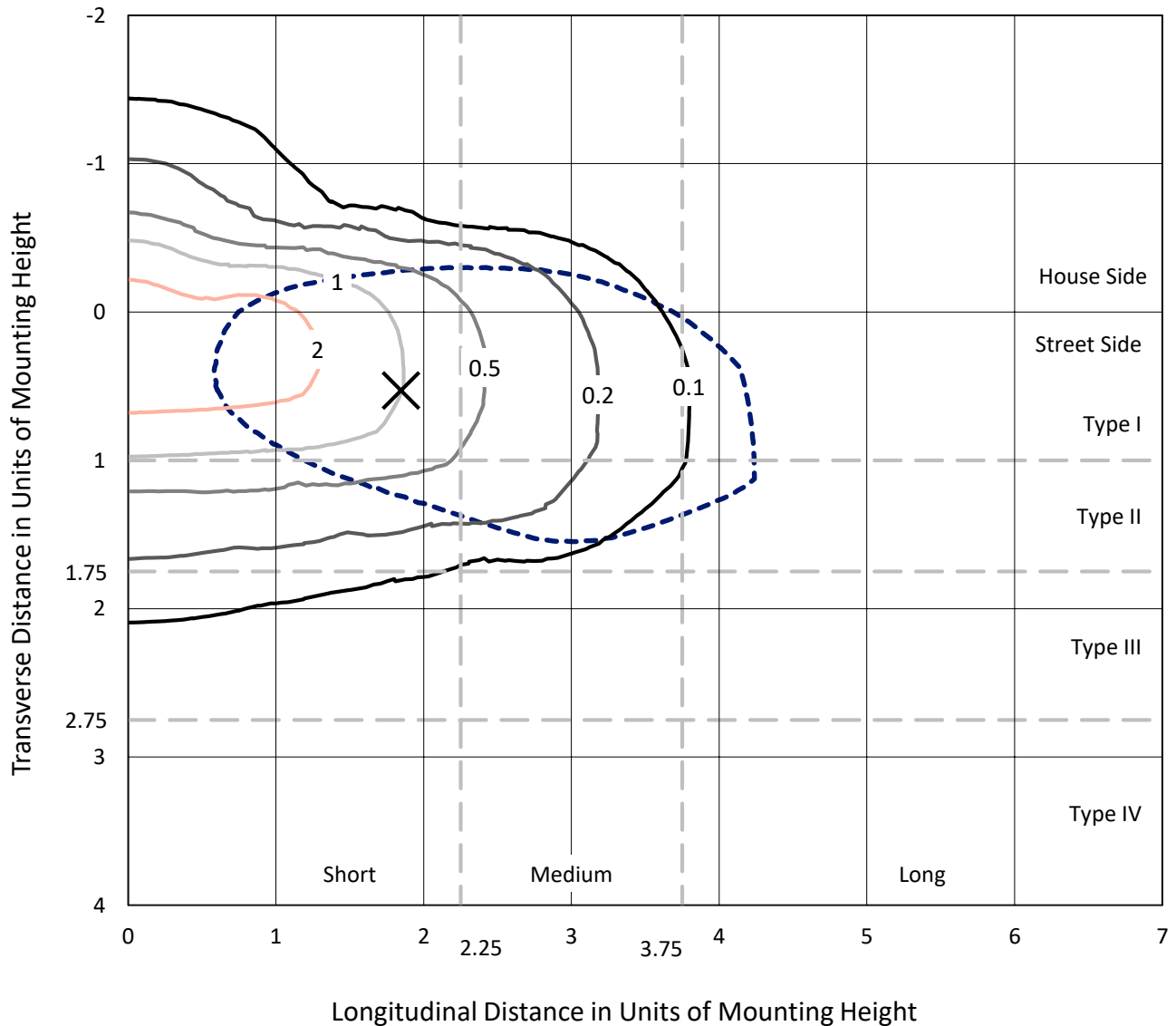
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

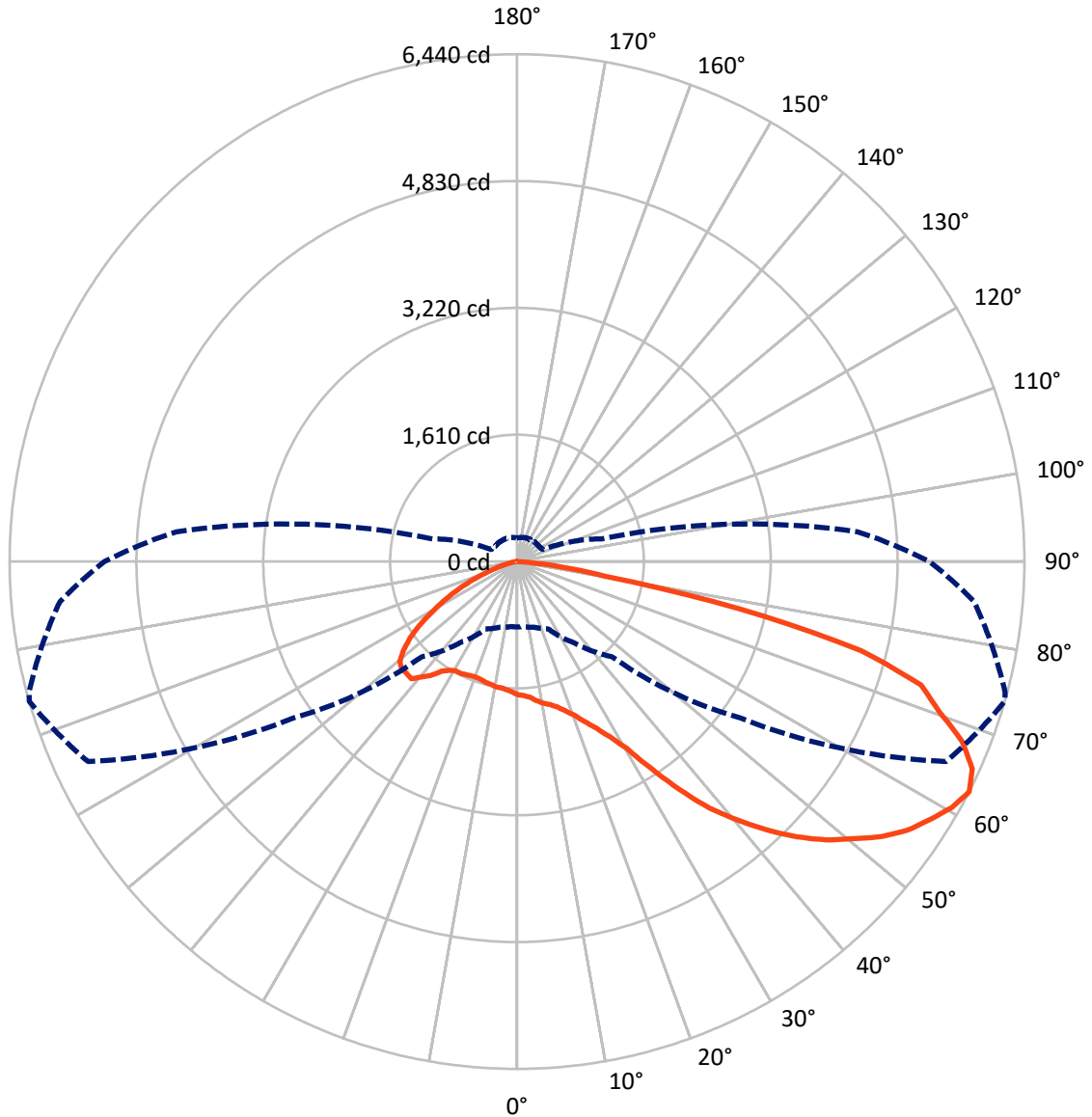
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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
<b>House Side</b>	Lumens	2368.0	0.0	2368.0
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	6803.0	0.0	6803.0
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	9171.0	0.0	9171.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.5	1.8
10°-20°	495.4	5.4
20°-30°	835.4	9.1
30°-40°	1220.6	13.3
40°-50°	1625.2	17.7
50°-60°	1870.3	20.4
60°-70°	1807.3	19.7
70°-80°	1040.4	11.3
80°-90°	113.8	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°	9171.0	100.0
0°-180°	9171.0	100.0

**Coefficient of Utilization**



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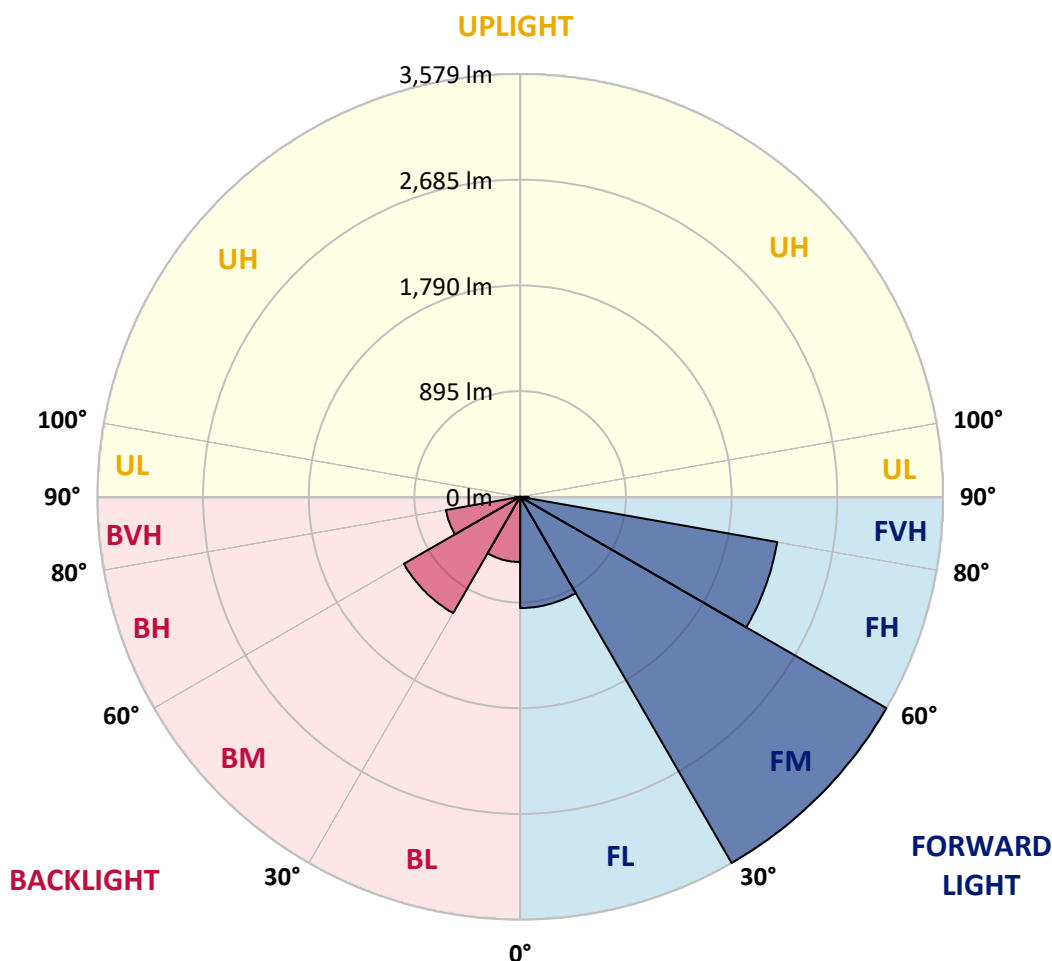
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.2	10.3			
FM (30°-60°)	3579.5	39.0			
FH (60°-80°)	2210.3	24.1			G2/5000
FVH (80°-90°)	72.0	0.8			G1/100
BL (0°-30°)	552.1	6.0	B2/1000		
BM (30°-60°)	1136.6	12.4	B2/2500		
BH (60°-80°)	637.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.8	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°	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1
2.5°	1810.1	1797.1	1789.1	1780.1	1769.1	1765.1	1741.1	1720.1	1703.1	1704.1	1693.1
5°	1876.1	1862.1	1844.1	1841.1	1827.1	1824.1	1801.1	1768.1	1731.1	1726.1	1693.1
7.5°	1950.1	1942.1	1931.1	1917.1	1894.1	1879.1	1846.1	1820.1	1782.1	1777.1	1712.1
10°	2040.1	2034.1	2026.1	2026.1	1996.1	1964.1	1924.1	1859.1	1829.1	1824.1	1745.1
12.5°	2146.1	2128.1	2102.1	2087.1	2059.1	2039.1	1996.1	1927.1	1862.1	1860.1	1776.1
15°	2215.1	2200.1	2183.1	2177.1	2141.1	2108.1	2062.1	2007.1	1916.1	1909.1	1814.1
17.5°	2292.1	2278.1	2258.1	2247.1	2224.1	2186.1	2145.1	2073.1	1992.1	1985.1	1857.1
20°	2335.1	2320.1	2314.1	2316.1	2308.1	2289.1	2240.1	2175.1	2082.1	2073.1	1916.1
22.5°	2383.1	2373.1	2375.1	2390.1	2405.1	2398.1	2360.1	2288.1	2208.1	2194.1	2011.1
25°	2384.1	2376.1	2403.1	2461.1	2493.1	2509.1	2489.1	2430.1	2345.1	2332.1	2132.1
27.5°	2401.1	2389.1	2418.1	2479.1	2576.1	2609.1	2616.1	2594.1	2521.1	2505.1	2277.1
30°	2357.1	2349.1	2393.1	2499.1	2613.1	2723.1	2763.1	2797.1	2756.1	2757.1	2501.1
32.5°	2281.1	2267.1	2334.1	2464.1	2676.1	2826.1	2932.1	3069.2	3132.2	3126.2	2891.1
35°	2136.1	2144.1	2234.1	2433.1	2678.1	2931.1	3139.2	3384.2	3555.2	3551.2	3295.2
37.5°	2033.1	2029.1	2135.1	2346.1	2677.1	3024.2	3340.2	3748.2	3969.2	3963.2	3642.2
40°	1909.1	1910.1	2016.1	2238.1	2630.1	3082.2	3548.2	4093.2	4318.2	4309.2	3974.2
42.5°	1776.1	1780.1	1879.1	2106.1	2565.1	3126.2	3734.2	4442.2	4660.2	4668.2	4240.2
45°	1657.1	1659.1	1757.1	1965.1	2450.1	3131.2	3901.2	4772.2	4984.2	4965.2	4519.2
47.5°	1482.1	1484.1	1629.1	1831.1	2298.1	3090.2	4039.2	5086.3	5280.3	5240.3	4755.2
50°	1161.1	1165.1	1337.1	1692.1	2113.1	2996.1	4148.2	5381.3	5531.3	5514.3	4997.2
52.5°	1072.1	1069.1	1141.1	1526.1	1947.1	2826.1	4217.2	5646.3	5798.3	5796.3	5197.3
55°	1027.1	1024.1	1048.1	1237.1	1784.1	2574.1	4215.2	5852.3	6019.3	5978.3	5380.3
57.5°	947.0	941.0	1003.1	1096.1	1602.1	2260.1	4115.2	6037.3	6179.3	6167.3	5545.3
60°	890.0	885.0	927.0	1013.1	1408.1	1941.1	3858.2	6133.3	6340.3	6345.3	5684.3
62.5°	831.0	828.0	864.0	944.0	1256.1	1708.1	3462.2	6007.3	6440.3	6413.3	5823.3
65°	764.0	762.0	796.0	861.0	1105.1	1531.1	3074.2	5782.3	6350.3	6381.3	5841.3
67.5°	684.0	683.0	716.0	761.0	940.0	1353.1	2480.1	5517.3	6093.3	6059.3	5610.3
70°	586.0	582.0	623.0	665.0	787.0	1151.1	1930.1	5046.3	5675.3	5798.3	5150.3
72.5°	493.0	491.0	530.0	561.0	652.0	940.0	1408.1	4364.2	5362.3	5185.3	4640.2
75°	386.0	376.0	417.0	446.0	514.0	748.0	960.0	2915.1	4513.2	4476.2	3898.2
77.5°	156.0	181.0	216.0	242.0	287.0	424.0	502.0	1383.1	2879.1	3006.1	2711.1
80°	60.0	64.0	154.0	174.0	193.0	244.0	193.0	583.0	1136.1	1239.1	1570.1
82.5°	34.0	38.0	76.0	73.0	72.0	62.0	72.0	286.0	593.0	650.0	758.0
85°	19.0	21.0	31.0	34.0	29.0	25.0	22.0	75.0	148.0	140.0	157.0
87.5°	3.0	4.0	5.0	5.0	3.0	3.0	3.0	4.0	4.0	4.0	5.0
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°	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1	1691.1
2.5°	1682.1	1671.1	1660.1	1647.1	1631.1	1621.1	1617.1	1622.1	1636.1	1619.1	1605.1
5°	1676.1	1661.1	1636.1	1611.1	1591.1	1574.1	1551.1	1549.1	1553.1	1546.1	1528.1
7.5°	1689.1	1667.1	1616.1	1599.1	1557.1	1517.1	1504.1	1499.1	1487.1	1473.1	1456.1
10°	1715.1	1670.1	1618.1	1568.1	1529.1	1486.1	1436.1	1437.1	1432.1	1416.1	1400.1
12.5°	1728.1	1675.1	1599.1	1546.1	1486.1	1433.1	1384.1	1362.1	1371.1	1358.1	1341.1
15°	1752.1	1696.1	1592.1	1514.1	1432.1	1372.1	1335.1	1303.1	1283.1	1286.1	1276.1
17.5°	1797.1	1715.1	1574.1	1479.1	1390.1	1319.1	1248.1	1245.1	1215.1	1198.1	1183.1
20°	1844.1	1749.1	1572.1	1441.1	1322.1	1234.1	1177.1	1145.1	1127.1	1113.1	1102.1
22.5°	1905.1	1796.1	1579.1	1419.1	1261.1	1162.1	1089.1	1046.1	1017.1	1007.1	999.0
25°	1991.1	1855.1	1598.1	1380.1	1197.1	1083.1	984.0	939.0	906.0	898.0	892.0
27.5°	2109.1	1930.1	1617.1	1338.1	1122.1	972.0	867.0	823.0	786.0	785.0	774.0
30°	2295.1	2045.1	1624.1	1301.1	1042.1	853.0	748.0	707.0	679.0	668.0	676.0
32.5°	2642.1	2299.1	1668.1	1244.1	941.0	737.0	648.0	615.0	584.0	572.0	580.0
35°	3017.2	2603.1	1742.1	1205.1	830.0	627.0	566.0	527.0	489.0	483.0	480.0
37.5°	3292.2	2880.1	1882.1	1141.1	725.0	560.0	480.0	448.0	426.0	414.0	425.0
40°	3604.2	3110.2	1988.1	1073.1	618.0	489.0	400.0	390.0	380.0	372.0	384.0
42.5°	3851.2	3347.2	2114.1	983.0	532.0	415.0	356.0	364.0	369.0	365.0	366.0
45°	4078.2	3523.2	2122.1	846.0	454.0	360.0	343.0	359.0	371.0	369.0	368.0
47.5°	4300.2	3733.2	2141.1	701.0	398.0	346.0	344.0	356.0	372.0	375.0	375.0
50°	4529.2	3893.2	2112.1	564.0	377.0	348.0	347.0	346.0	366.0	367.0	370.0
52.5°	4701.2	4023.2	1975.1	466.0	376.0	354.0	352.0	342.0	351.0	358.0	353.0
55°	4883.2	4185.2	1802.1	429.0	374.0	356.0	364.0	347.0	341.0	335.0	341.0
57.5°	5056.3	4298.2	1575.1	407.0	366.0	353.0	369.0	346.0	333.0	316.0	310.0
60°	5189.3	4324.2	1322.1	384.0	356.0	346.0	347.0	339.0	322.0	301.0	292.0
62.5°	5234.3	4339.2	1112.1	362.0	336.0	335.0	327.0	324.0	317.0	304.0	300.0
65°	5196.3	4169.2	888.0	335.0	319.0	320.0	308.0	298.0	282.0	261.0	259.0
67.5°	4935.2	3870.2	681.0	301.0	293.0	303.0	290.0	273.0	255.0	241.0	243.0
70°	4488.2	3516.2	478.0	254.0	263.0	281.0	276.0	254.0	234.0	222.0	224.0
72.5°	3991.2	2979.1	325.0	198.0	214.0	252.0	252.0	237.0	217.0	201.0	197.0
75°	3148.2	2340.1	210.0	131.0	141.0	206.0	223.0	200.0	178.0	168.0	164.0
77.5°	2137.1	1524.1	134.0	75.0	94.0	135.0	176.0	179.0	211.0	212.0	203.0
80°	1256.1	872.0	82.0	44.0	47.0	78.0	141.0	177.0	224.0	158.0	145.0
82.5°	625.0	372.0	37.0	27.0	28.0	39.0	76.0	203.0	173.0	99.0	95.0
85°	139.0	61.0	15.0	14.0	16.0	20.0	39.0	168.0	106.0	80.0	78.0
87.5°	5.0	4.0	4.0	4.0	3.0	3.0	8.0	55.0	42.0	35.0	33.0
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)