

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: P509271

Luminaire Tested: **VERD-CA2-60-740-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
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-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 850mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9234 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

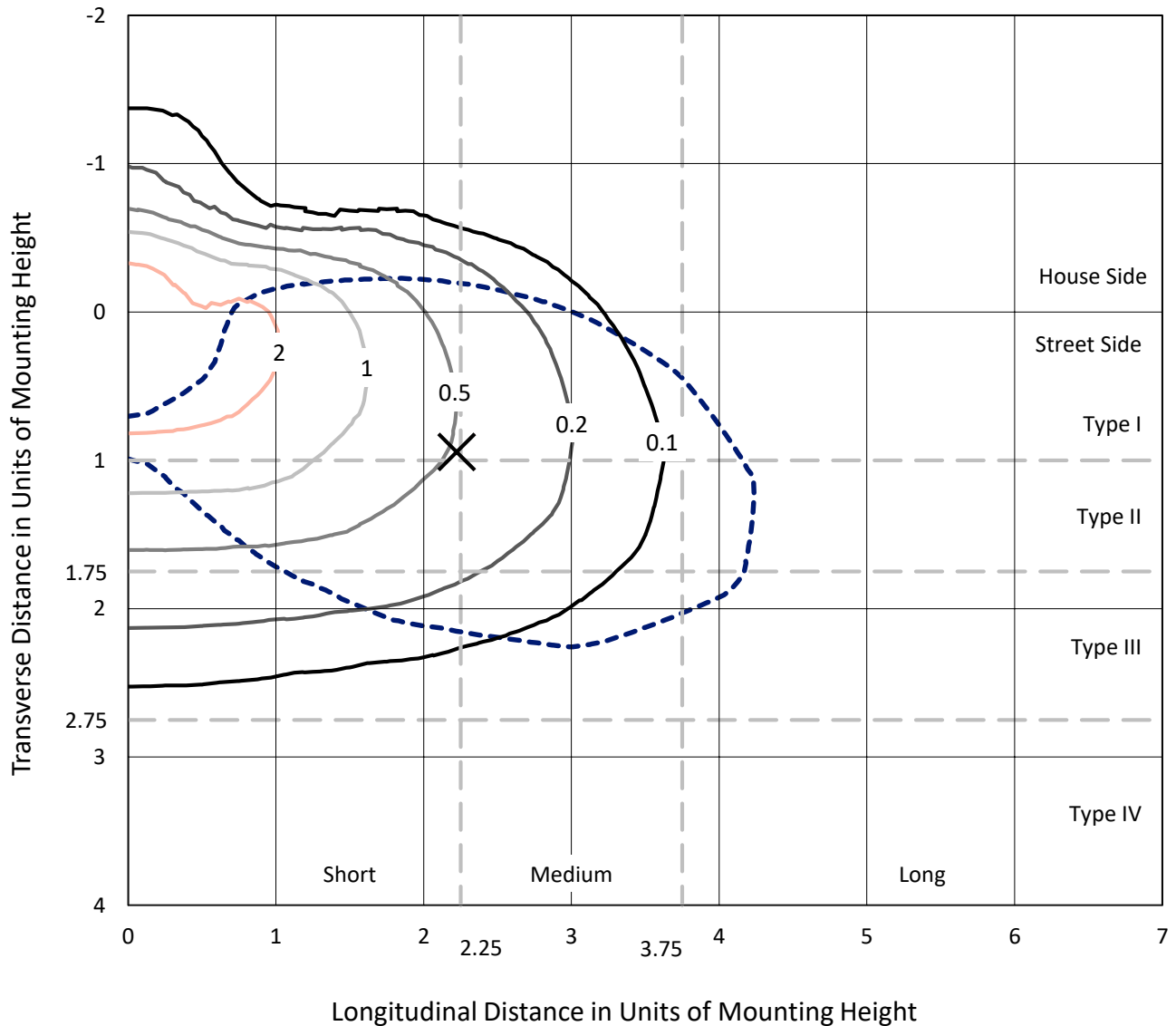
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

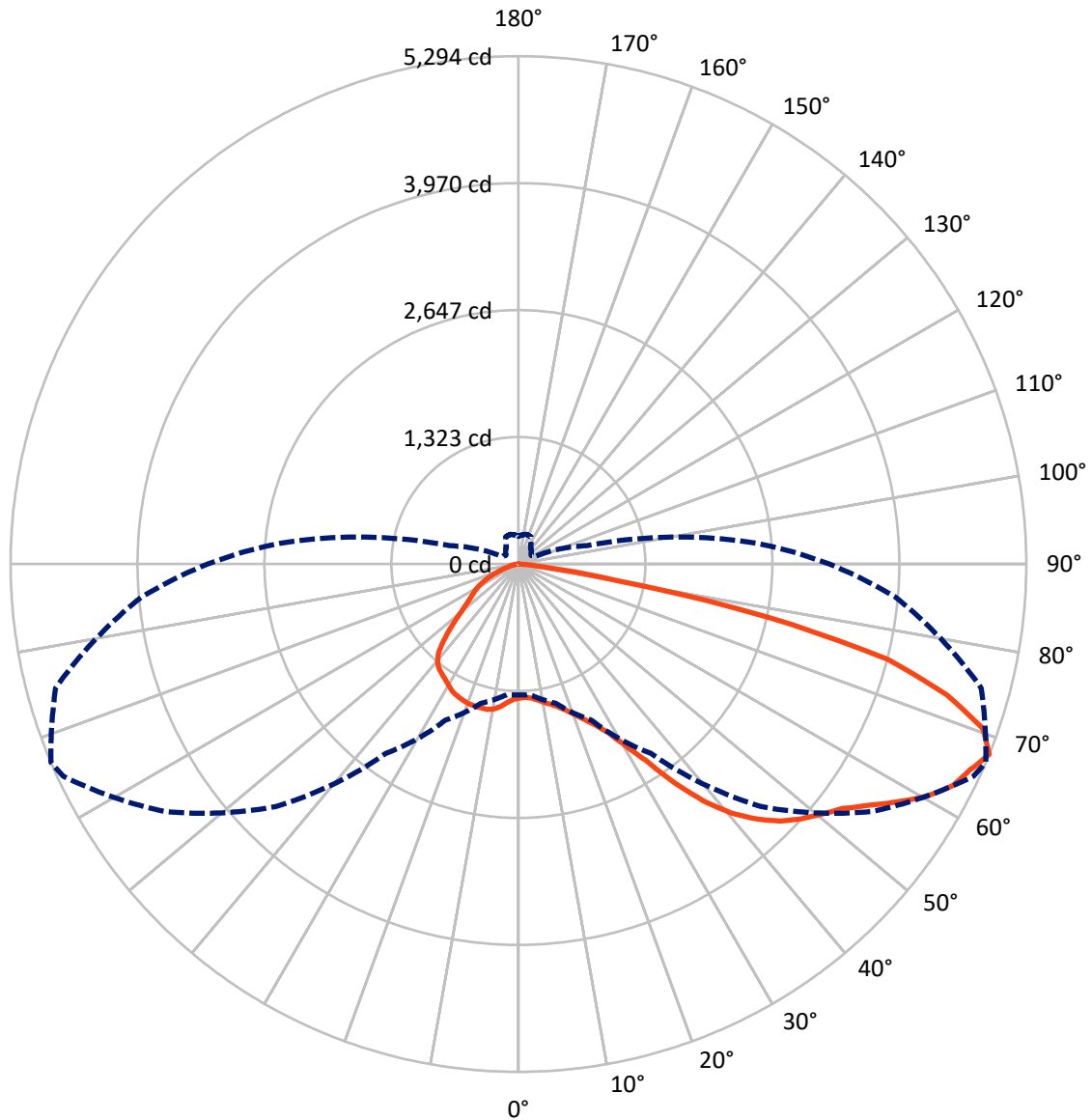
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2111.4	0.0	2111.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7122.6	0.0	7122.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	9234.0	0.0	9234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.5
10°-20°	452.8	4.9
20°-30°	782.3	8.5
30°-40°	1187.5	12.9
40°-50°	1613.6	17.5
50°-60°	1919.1	20.8
60°-70°	1974.5	21.4
70°-80°	1077.1	11.7
80°-90°	85.6	0.9
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°	9234.0	100.0
0°-180°	9234.0	100.0

Coefficient of Utilization



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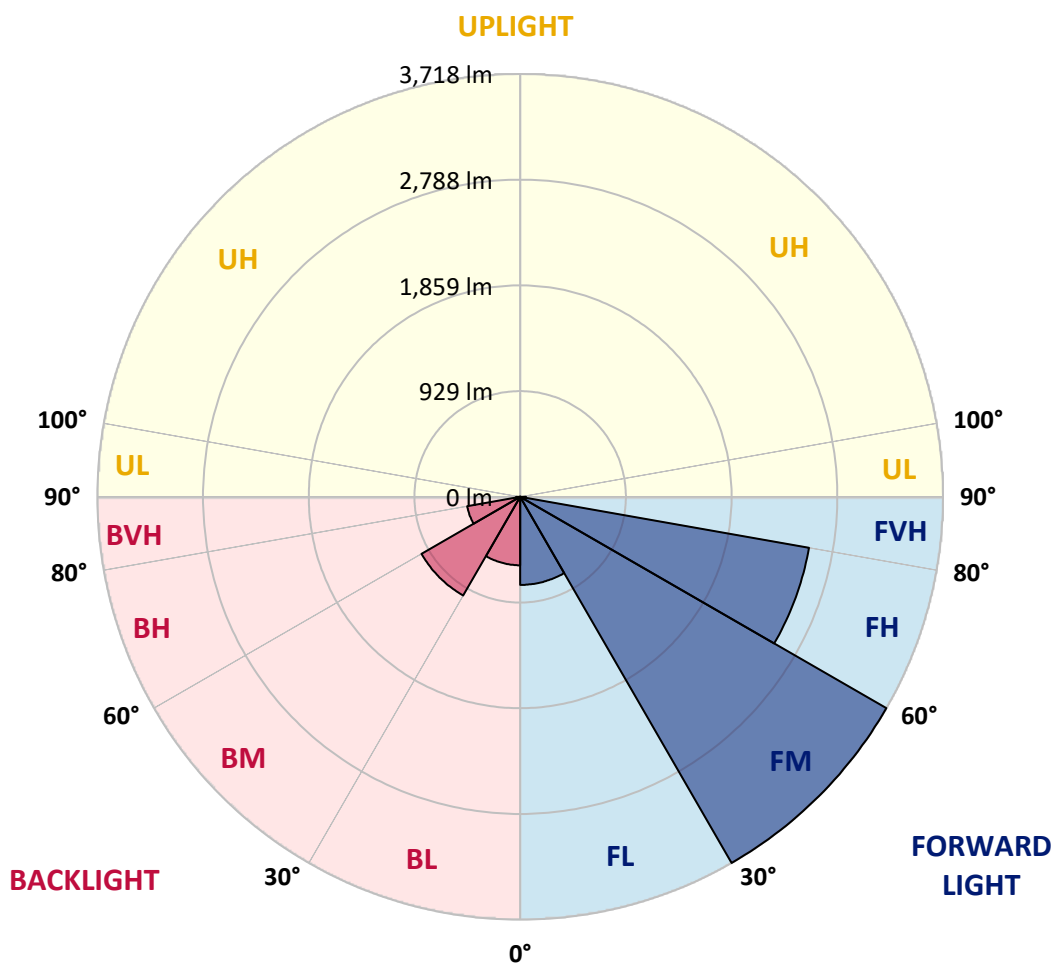
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.5	8.4			
FM (30°-60°)	3718.0	40.3			
FH (60°-80°)	2578.9	27.9			G2/5000
FVH (80°-90°)	51.2	0.6			G1/100
BL (0°-30°)	602.1	6.5	B2/1000		
BM (30°-60°)	1002.3	10.9	B2/2500		
BH (60°-80°)	472.7	5.1	B1/500		G1/500
BVH (80°-90°)	34.4	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0
2.5°	1405.0	1399.0	1391.0	1394.0	1388.0	1398.0	1394.0	1392.0	1392.0	1393.0	1398.0
5°	1437.0	1431.0	1425.0	1424.0	1412.0	1416.0	1410.0	1404.0	1404.0	1403.0	1405.0
7.5°	1492.9	1484.9	1477.9	1476.9	1462.0	1460.0	1442.0	1430.0	1430.0	1429.0	1432.0
10°	1566.9	1563.9	1549.9	1540.9	1522.9	1510.9	1488.9	1470.0	1466.0	1460.0	1468.0
12.5°	1637.9	1636.9	1623.9	1613.9	1588.9	1567.9	1531.9	1505.9	1500.9	1493.9	1499.9
15°	1726.9	1717.9	1703.9	1697.9	1661.9	1629.9	1588.9	1549.9	1544.9	1536.9	1541.9
17.5°	1824.9	1819.9	1797.9	1790.9	1745.9	1708.9	1657.9	1607.9	1599.9	1588.9	1587.9
20°	1942.9	1933.9	1916.9	1896.9	1852.9	1799.9	1740.9	1683.9	1676.9	1667.9	1648.9
22.5°	2069.9	2059.9	2042.9	2021.9	1965.9	1909.9	1835.9	1763.9	1759.9	1753.9	1718.9
25°	2190.9	2173.9	2175.9	2155.9	2105.9	2034.9	1947.9	1861.9	1859.9	1858.9	1802.9
27.5°	2319.9	2301.9	2295.9	2288.9	2241.9	2174.9	2076.9	1994.9	1987.9	1988.9	1903.9
30°	2440.9	2432.9	2427.9	2422.9	2399.9	2339.9	2245.9	2172.9	2194.9	2192.9	2075.9
32.5°	2534.9	2528.9	2549.9	2573.9	2567.9	2517.9	2452.9	2419.9	2441.9	2512.9	2410.9
35°	2617.9	2614.9	2654.9	2705.9	2741.9	2705.9	2698.9	2749.9	2800.9	2918.9	2859.9
37.5°	2707.9	2703.9	2737.9	2824.9	2887.9	2898.9	2951.9	3082.9	3131.9	3249.9	3125.9
40°	2706.9	2711.9	2793.9	2904.9	3019.9	3112.9	3221.9	3348.9	3411.9	3467.9	3275.9
42.5°	2662.9	2665.9	2768.9	2979.9	3146.9	3329.9	3426.9	3589.9	3632.9	3643.9	3452.9
45°	2617.9	2619.9	2731.9	2968.9	3252.9	3532.9	3640.9	3789.9	3822.9	3784.9	3572.9
47.5°	2552.9	2565.9	2686.9	2957.9	3343.9	3719.9	3806.9	3954.9	3967.9	3919.9	3672.9
50°	2475.9	2482.9	2621.9	2921.9	3403.9	3835.9	3938.9	4072.9	4097.9	4043.9	3796.9
52.5°	2381.9	2387.9	2538.9	2873.9	3436.9	3924.9	4039.9	4199.9	4233.9	4209.9	3905.9
55°	2273.9	2276.9	2430.9	2795.9	3427.9	3963.9	4127.9	4379.9	4436.8	4377.9	3996.9
57.5°	2138.9	2149.9	2324.9	2678.9	3359.9	4012.9	4286.9	4601.8	4674.8	4548.8	4064.9
60°	1999.9	2010.9	2169.9	2542.9	3245.9	4034.9	4450.8	4840.8	4904.8	4710.8	4106.9
62.5°	1843.9	1858.9	1990.9	2337.9	3041.9	4005.9	4571.8	5049.8	5085.8	4807.8	4095.9
65°	1616.9	1624.9	1768.9	2090.9	2775.9	3854.9	4566.8	5161.8	5173.8	4914.8	4047.9
67.5°	1365.0	1366.0	1501.9	1792.9	2409.9	3572.9	4496.8	5234.8	5293.8	4993.8	3942.9
70°	1038.0	1052.0	1158.0	1374.0	1969.9	3090.9	4265.9	5162.8	5134.8	4777.8	3641.9
72.5°	741.0	733.0	787.0	933.0	1379.0	2384.9	3677.9	4664.8	4670.8	4351.9	3168.9
75°	394.0	396.0	442.0	565.0	704.0	1551.9	2941.9	3940.9	3976.9	3731.9	2479.9
77.5°	88.0	100.0	152.0	216.0	306.0	497.0	1595.9	2584.9	2652.9	2455.9	1359.0
80°	68.0	69.0	100.0	123.0	135.0	238.0	507.0	938.0	1041.0	983.0	511.0
82.5°	45.0	46.0	66.0	68.0	65.0	109.0	230.0	281.0	309.0	270.0	190.0
85°	24.0	25.0	30.0	33.0	26.0	32.0	30.0	24.0	25.0	22.0	22.0
87.5°	5.0	3.0	4.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0
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°	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0	1397.0
2.5°	1398.0	1400.0	1405.0	1413.0	1417.0	1426.0	1432.0	1447.0	1468.0	1461.0	1452.0
5°	1406.0	1412.0	1429.0	1450.0	1466.0	1489.9	1501.9	1530.9	1554.9	1552.9	1536.9
7.5°	1436.0	1449.0	1470.0	1500.9	1527.9	1551.9	1568.9	1599.9	1621.9	1612.9	1597.9
10°	1474.0	1486.9	1509.9	1537.9	1557.9	1583.9	1594.9	1619.9	1633.9	1622.9	1609.9
12.5°	1508.9	1515.9	1531.9	1552.9	1563.9	1580.9	1585.9	1603.9	1616.9	1611.9	1595.9
15°	1542.9	1541.9	1544.9	1550.9	1554.9	1558.9	1559.9	1572.9	1581.9	1571.9	1560.9
17.5°	1580.9	1570.9	1557.9	1547.9	1532.9	1525.9	1512.9	1518.9	1517.9	1509.9	1500.9
20°	1628.9	1610.9	1570.9	1539.9	1500.9	1470.0	1443.0	1438.0	1438.0	1416.0	1415.0
22.5°	1685.9	1655.9	1588.9	1520.9	1458.0	1409.0	1359.0	1330.0	1309.0	1293.0	1286.0
25°	1759.9	1704.9	1604.9	1494.9	1402.0	1313.0	1238.0	1198.0	1158.0	1132.0	1128.0
27.5°	1838.9	1778.9	1614.9	1472.0	1325.0	1203.0	1099.0	1017.0	980.0	963.0	947.0
30°	1967.9	1861.9	1632.9	1423.0	1228.0	1068.0	930.0	834.0	798.0	786.0	776.0
32.5°	2280.9	2076.9	1649.9	1373.0	1124.0	919.0	737.0	656.0	625.0	637.0	641.0
35°	2672.9	2396.9	1730.9	1315.0	1016.0	750.0	567.0	513.0	515.0	533.0	539.0
37.5°	2938.9	2678.9	1895.9	1242.0	861.0	556.0	439.0	422.0	437.0	453.0	456.0
40°	3094.9	2807.9	2011.9	1152.0	678.0	416.0	330.0	318.0	350.0	386.0	408.0
42.5°	3260.9	2917.9	2071.9	1035.0	476.0	301.0	253.0	262.0	313.0	344.0	358.0
45°	3349.9	3003.9	2044.9	868.0	324.0	234.0	227.0	252.0	303.0	331.0	335.0
47.5°	3445.9	3089.9	1979.9	694.0	248.0	222.0	223.0	253.0	305.0	335.0	335.0
50°	3528.9	3160.9	1863.9	544.0	236.0	214.0	224.0	258.0	308.0	334.0	333.0
52.5°	3624.9	3192.9	1698.9	440.0	224.0	207.0	225.0	262.0	303.0	318.0	316.0
55°	3654.9	3169.9	1619.9	368.0	215.0	203.0	229.0	268.0	301.0	304.0	299.0
57.5°	3654.9	3107.9	1529.9	314.0	207.0	203.0	231.0	267.0	312.0	331.0	329.0
60°	3638.9	3042.9	1392.0	281.0	196.0	201.0	232.0	282.0	371.0	392.0	391.0
62.5°	3587.9	2937.9	1222.0	248.0	185.0	202.0	229.0	303.0	424.0	415.0	393.0
65°	3466.9	2739.9	991.0	218.0	173.0	202.0	225.0	333.0	377.0	360.0	352.0
67.5°	3238.9	2490.9	737.0	187.0	159.0	189.0	219.0	312.0	320.0	301.0	289.0
70°	2937.9	2109.9	473.0	158.0	144.0	178.0	215.0	293.0	309.0	286.0	271.0
72.5°	2447.9	1675.9	274.0	129.0	122.0	164.0	207.0	284.0	304.0	273.0	252.0
75°	1726.9	1058.0	180.0	95.0	98.0	140.0	192.0	266.0	285.0	247.0	217.0
77.5°	880.0	397.0	128.0	70.0	66.0	107.0	166.0	245.0	281.0	249.0	213.0
80°	311.0	200.0	84.0	46.0	43.0	66.0	127.0	208.0	264.0	243.0	236.0
82.5°	133.0	100.0	46.0	29.0	26.0	33.0	72.0	164.0	232.0	220.0	266.0
85°	19.0	17.0	13.0	11.0	11.0	15.0	23.0	81.0	157.0	179.0	217.0
87.5°	3.0	3.0	3.0	2.0	2.0	2.0	1.0	12.0	52.0	78.0	108.0
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)