

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: P233695

Luminaire Tested: **VERD-C029-D-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C029-D-U-T2-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1030mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9199 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

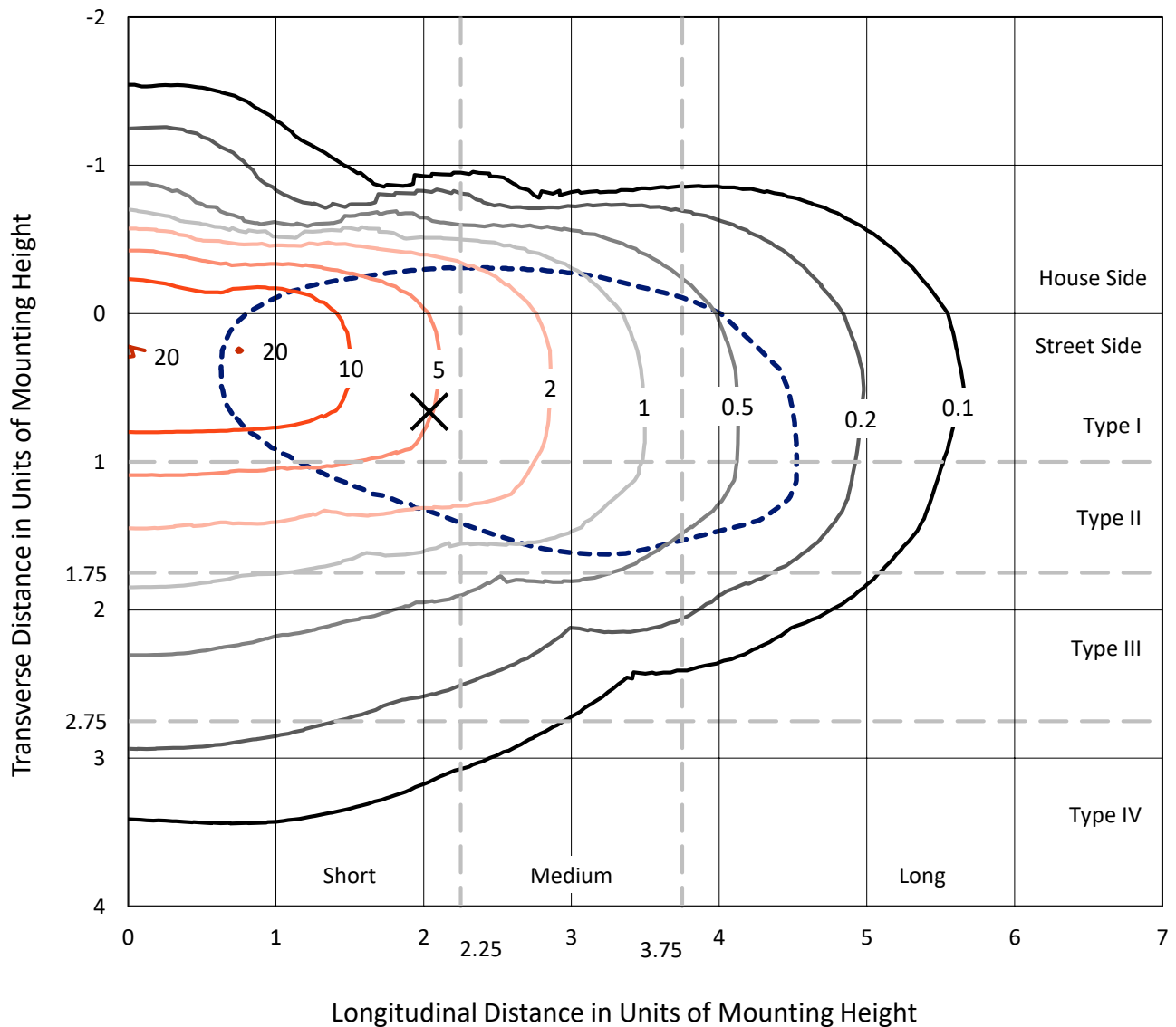
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

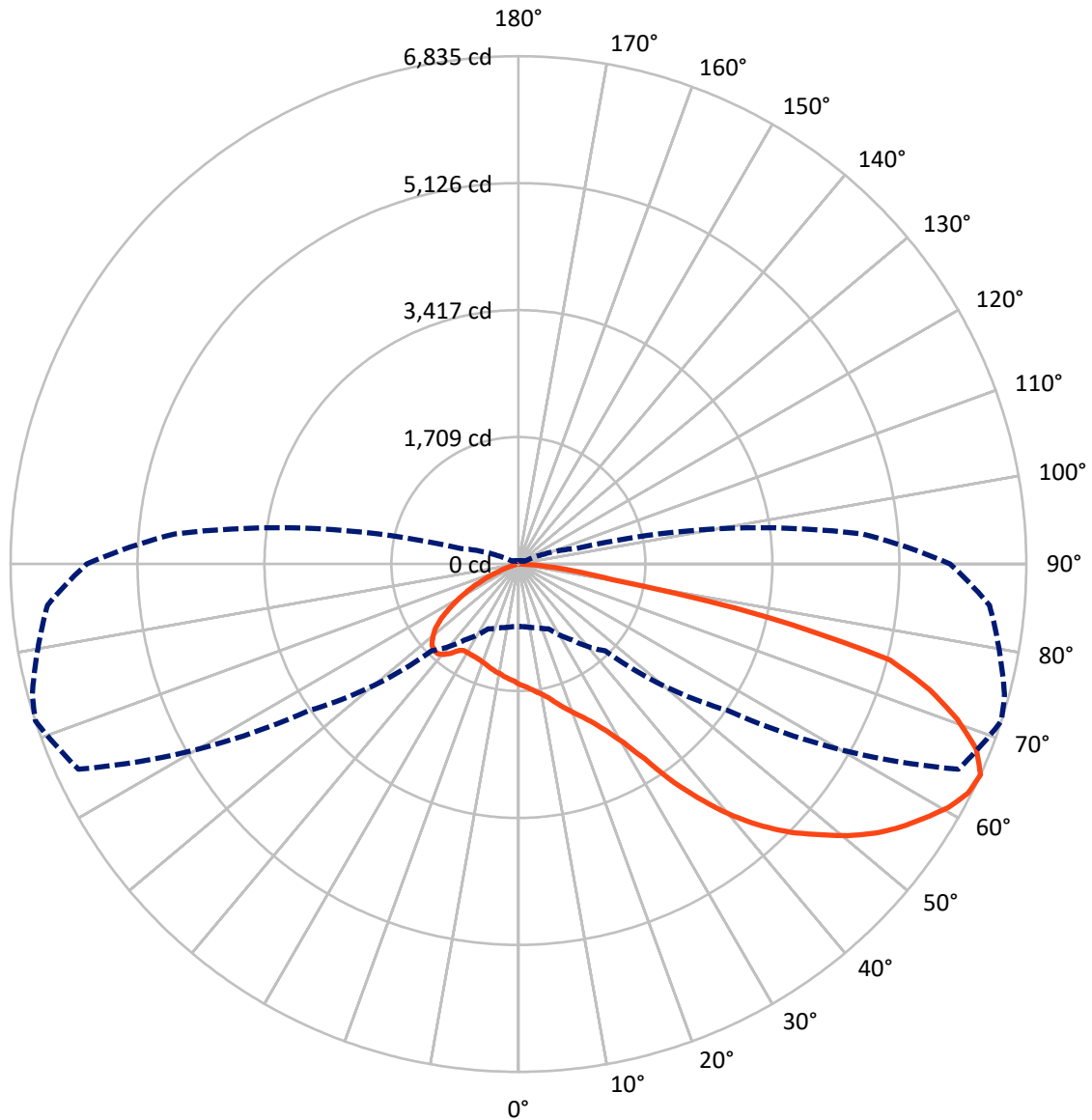


Based on 10 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.6	0.0	1911.6
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7287.4	0.0	7287.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	9199.0	0.0	9199.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.7
10°-20°	471.7	5.1
20°-30°	788.2	8.6
30°-40°	1165.9	12.7
40°-50°	1611.8	17.5
50°-60°	1886.1	20.5
60°-70°	1874.8	20.4
70°-80°	1122.8	12.2
80°-90°	122.2	1.3
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°	9199.0	100.0
0°-180°	9199.0	100.0



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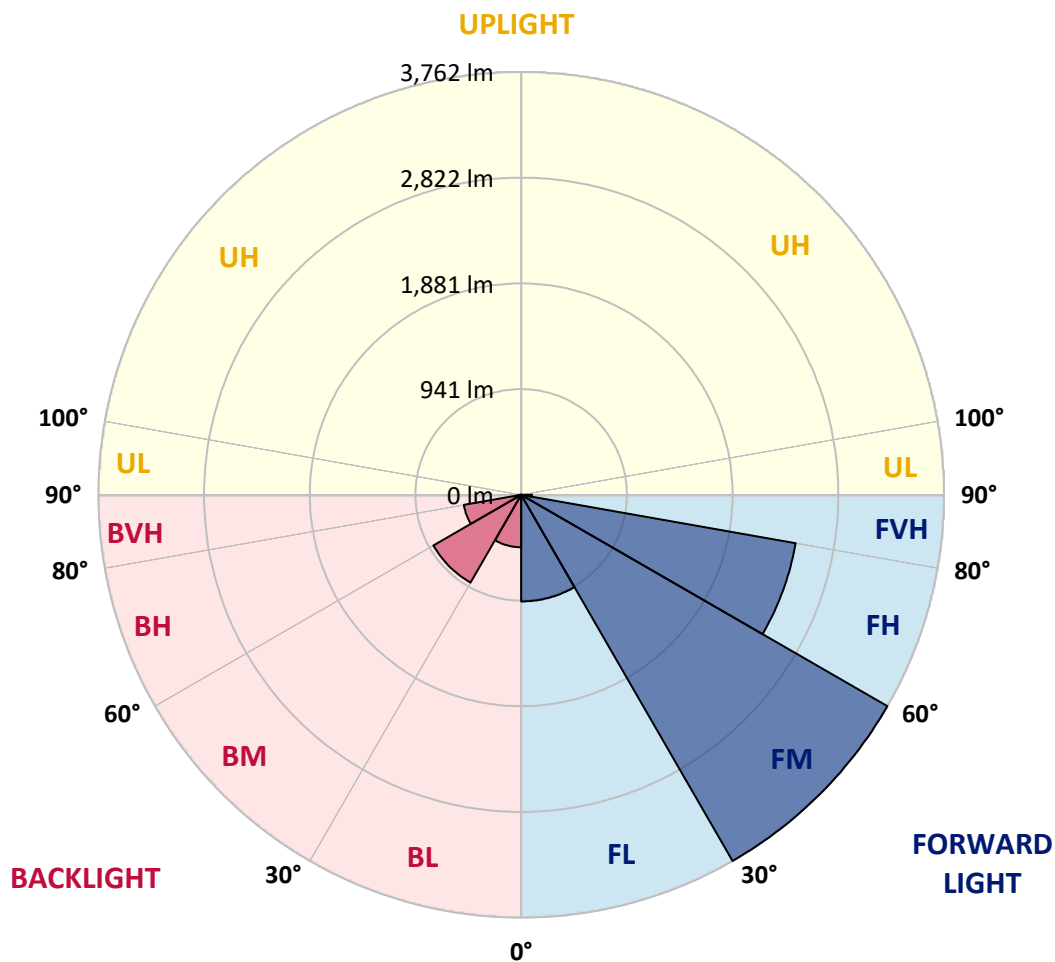
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.6	10.3			
FM (30°-60°)	3762.1	40.9			
FH (60°-80°)	2480.1	27.0			G2/5000
FVH (80°-90°)	96.6	1.1			G1/100
BL (0°-30°)	466.7	5.1	B1/500		
BM (30°-60°)	901.8	9.8	B1/1000		
BH (60°-80°)	517.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	25.6	0.3			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°	72°	75°	85°
0°	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2
2.5°	1757.8	1759.3	1760.1	1732.3	1717.3	1700.0	1683.5	1665.5	1646.8	1640.0	1615.2
5°	1865.9	1867.4	1862.9	1837.4	1809.6	1784.1	1752.6	1720.3	1688.8	1679.8	1637.7
7.5°	1970.3	1969.5	1965.7	1933.5	1898.9	1865.2	1820.9	1777.4	1736.1	1721.8	1659.5
10°	2056.6	2058.1	2060.3	2025.8	1992.0	1951.5	1897.4	1832.9	1785.6	1763.1	1682.0
12.5°	2151.1	2146.6	2152.6	2118.9	2072.3	2035.6	1986.8	1911.0	1854.7	1826.1	1725.6
15°	2259.2	2259.2	2251.0	2223.2	2175.9	2130.9	2082.1	2012.3	1944.7	1901.2	1784.1
17.5°	2333.5	2329.0	2326.8	2302.8	2262.2	2223.2	2185.7	2114.4	2040.8	1987.5	1838.9
20°	2365.1	2366.6	2377.1	2359.8	2338.0	2314.8	2273.5	2217.9	2136.9	2079.8	1897.4
22.5°	2425.9	2427.4	2440.1	2428.1	2422.1	2416.1	2377.8	2329.0	2242.7	2187.9	1971.0
25°	2429.6	2431.1	2465.6	2485.1	2515.9	2530.2	2503.9	2461.9	2374.1	2320.8	2080.6
27.5°	2440.9	2445.4	2480.6	2534.7	2615.7	2644.3	2629.3	2627.8	2553.4	2497.2	2223.2
30°	2431.1	2435.6	2486.6	2561.7	2674.3	2758.4	2775.6	2819.9	2789.9	2747.8	2421.3
32.5°	2362.1	2378.6	2439.4	2558.7	2724.6	2876.9	2932.5	3084.1	3129.1	3133.6	2819.2
35°	2236.7	2245.7	2356.0	2524.2	2758.4	2988.8	3141.9	3421.9	3612.5	3604.2	3259.7
37.5°	2141.4	2144.4	2257.7	2465.6	2777.1	3108.9	3380.6	3828.7	4047.8	4057.6	3657.5
40°	2019.0	2040.8	2149.6	2395.1	2766.6	3210.2	3617.8	4207.7	4462.9	4452.4	4006.6
42.5°	1905.0	1917.7	2025.8	2284.7	2728.3	3287.5	3850.4	4574.7	4825.4	4790.9	4341.3
45°	1786.4	1808.1	1907.2	2142.1	2652.5	3331.0	4061.3	4923.0	5152.7	5109.9	4636.3
47.5°	1667.8	1683.5	1788.6	2011.5	2509.9	3329.5	4268.5	5249.5	5443.2	5413.1	4915.5
50°	1269.2	1303.7	1580.0	1874.9	2309.5	3266.5	4435.9	5559.5	5747.9	5701.3	5188.0
52.5°	1163.4	1174.6	1252.0	1716.6	2095.6	3116.4	4566.5	5850.7	6016.6	5963.3	5444.7
55°	1099.6	1113.1	1144.6	1395.3	1920.0	2869.4	4620.5	6122.4	6246.3	6192.2	5673.6
57.5°	1014.8	1028.3	1090.6	1201.7	1736.8	2493.4	4541.0	6363.4	6449.7	6390.4	5886.0
60°	956.2	962.2	1022.3	1109.3	1536.4	2113.6	4275.3	6559.3	6649.3	6578.8	6096.2
62.5°	902.2	908.9	951.7	1038.0	1370.5	1835.2	3861.7	6607.3	6791.2	6736.4	6288.3
65°	839.9	845.9	884.9	961.5	1242.2	1653.5	3435.4	6533.7	6834.7	6772.4	6362.6
67.5°	757.3	765.6	796.4	865.4	1074.1	1447.9	2801.1	6397.9	6644.1	6579.5	6210.2
70°	655.2	659.0	695.8	758.1	907.4	1256.5	2196.9	5914.5	6266.5	6195.2	5780.9
72.5°	529.2	535.9	575.7	641.0	745.3	1035.0	1569.4	5110.6	5788.4	5761.4	5155.7
75°	353.5	379.8	474.4	540.4	616.2	808.4	1053.8	3587.0	5167.7	5188.7	4404.4
77.5°	67.6	69.8	198.9	295.7	360.3	493.9	652.2	1762.3	3406.1	3774.6	3321.3
80°	44.3	48.0	84.8	207.2	238.7	244.7	334.8	772.3	1283.5	1623.5	1915.5
82.5°	23.3	27.8	51.0	120.1	109.6	60.8	109.6	398.6	711.5	817.4	966.0
85°	9.8	11.3	24.8	41.3	30.8	25.5	25.5	159.1	315.2	364.8	379.0
87.5°	1.5	1.5	5.3	7.5	4.5	3.0	2.3	0.8	0.8	0.8	0.8
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°	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2	1621.2
2.5°	1615.2	1601.7	1583.0	1561.2	1545.4	1537.2	1530.4	1512.4	1506.4	1518.4	1515.4
5°	1622.0	1606.2	1563.4	1528.2	1492.9	1471.1	1447.1	1415.6	1402.1	1409.6	1407.3
7.5°	1626.5	1607.0	1543.2	1488.4	1429.1	1387.8	1356.3	1315.0	1294.7	1302.2	1293.2
10°	1633.2	1604.0	1519.2	1446.4	1369.0	1309.0	1262.5	1214.4	1193.4	1199.4	1191.9
12.5°	1661.8	1614.5	1507.9	1410.3	1315.8	1240.7	1182.2	1131.1	1101.1	1107.1	1101.1
15°	1708.3	1635.5	1491.4	1364.5	1259.5	1173.9	1106.3	1047.8	1013.3	1021.5	1014.0
17.5°	1757.1	1661.0	1476.4	1313.5	1199.4	1104.1	1033.5	984.0	928.5	933.7	922.5
20°	1799.1	1685.0	1468.1	1265.5	1143.1	1029.8	945.0	911.2	834.6	815.1	802.4
22.5°	1857.7	1720.3	1461.4	1226.4	1073.3	955.5	854.9	791.9	709.3	668.0	664.3
25°	1941.0	1772.9	1460.6	1195.7	1010.3	877.4	737.1	631.2	558.4	509.6	502.9
27.5°	2046.8	1842.7	1468.9	1164.9	947.2	779.1	592.2	475.1	409.8	372.3	365.5
30°	2199.2	1934.2	1479.4	1129.6	876.7	651.5	441.3	349.8	295.7	268.7	263.5
32.5°	2525.7	2169.2	1495.1	1092.8	791.9	490.9	320.5	253.7	212.4	195.9	204.2
35°	2919.0	2488.1	1565.7	1045.5	680.8	349.8	231.2	180.9	152.4	156.1	160.6
37.5°	3262.7	2792.9	1724.1	984.8	532.2	256.7	159.1	135.1	135.1	147.1	157.6
40°	3587.0	3067.6	1865.9	902.2	373.0	177.1	123.1	125.3	123.1	130.6	128.3
42.5°	3893.2	3328.0	1977.0	803.9	243.9	122.3	111.8	116.3	112.6	114.1	107.3
45°	4182.9	3597.5	2038.6	659.0	162.1	106.6	102.8	110.3	109.6	108.1	101.3
47.5°	4450.9	3834.7	2069.3	475.1	111.8	96.1	96.8	102.1	104.3	102.8	99.1
50°	4713.6	4071.1	2041.6	284.5	100.6	87.8	93.1	93.1	97.6	89.3	86.3
52.5°	4965.0	4308.3	1953.7	172.6	92.3	81.8	86.3	84.8	87.1	78.8	77.3
55°	5201.5	4484.7	1780.4	135.9	87.1	78.1	78.8	80.3	76.6	67.6	70.6
57.5°	5451.4	4634.8	1538.7	123.1	84.8	72.8	74.3	73.6	67.6	59.3	59.3
60°	5657.1	4743.6	1296.2	111.8	83.3	71.3	66.1	64.5	55.5	51.0	50.3
62.5°	5798.9	4774.4	1059.8	99.8	78.8	66.1	59.3	54.8	46.5	42.0	40.5
65°	5810.2	4643.0	806.9	90.1	74.3	61.5	54.8	45.0	36.8	33.0	31.5
67.5°	5579.8	4278.3	568.9	82.6	66.8	57.0	48.0	36.0	29.3	26.3	25.5
70°	5097.9	3824.9	348.3	72.1	60.8	53.3	49.5	29.3	24.0	20.3	20.3
72.5°	4473.4	3313.0	204.2	61.5	51.0	42.8	33.0	24.8	20.3	15.8	15.8
75°	3833.9	2630.0	125.3	46.5	37.5	33.8	25.5	21.0	16.5	12.0	12.0
77.5°	2760.6	1941.7	97.6	30.0	23.3	24.0	18.8	16.5	13.5	9.8	9.8
80°	1694.0	1182.2	69.8	20.3	13.5	13.5	13.5	12.8	9.8	8.3	7.5
82.5°	858.7	540.4	34.5	12.0	8.3	8.3	8.3	9.0	7.5	6.0	6.0
85°	301.7	151.6	10.5	6.0	5.3	5.3	4.5	4.5	3.8	3.0	3.0
87.5°	0.8	1.5	1.5	2.3	3.0	3.0	2.3	1.5	0.8	0.0	0.0
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)