

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: P233508

Luminaire Tested: **VERD-C018-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C018-D-U-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5258 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 50
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

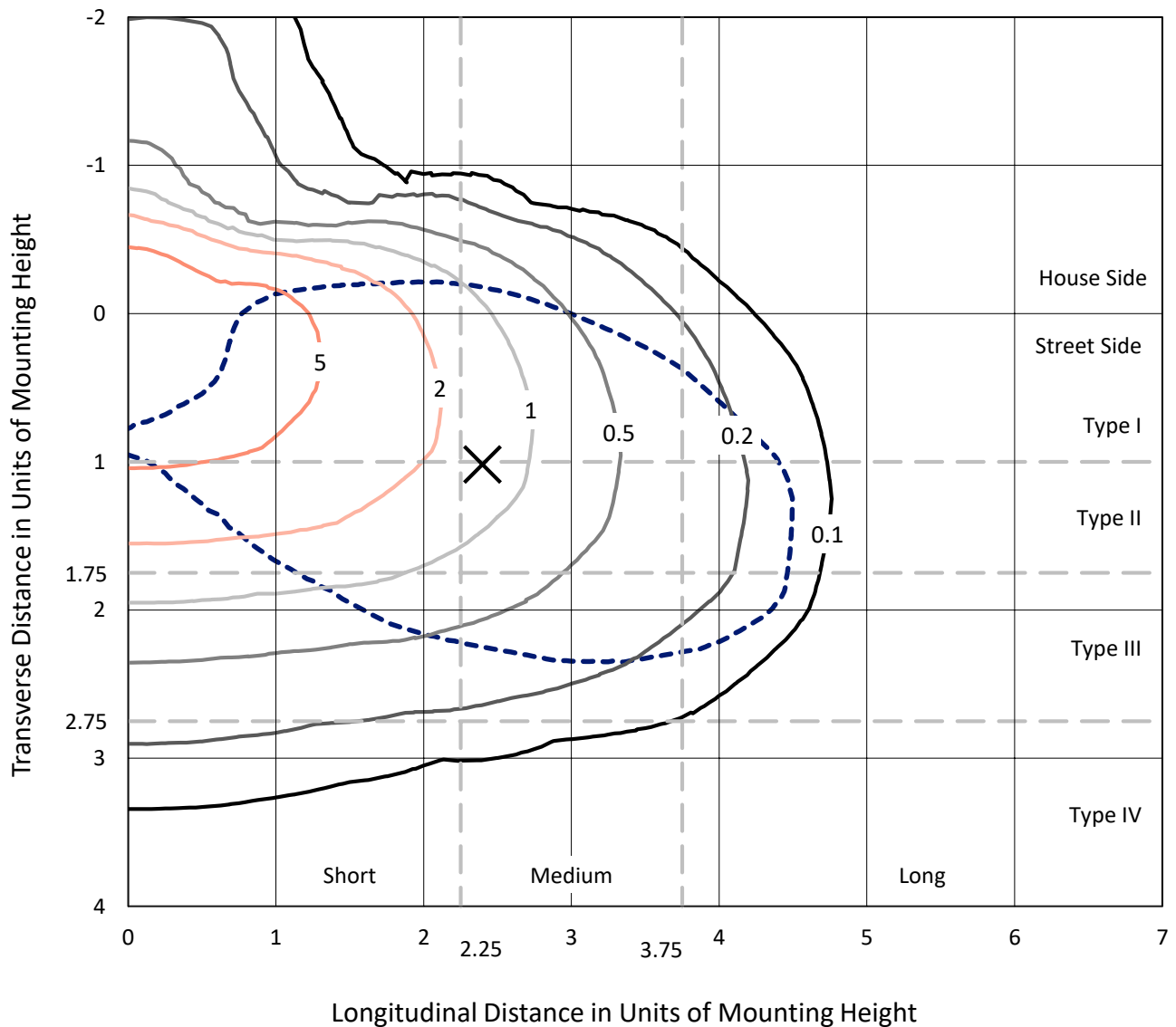


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

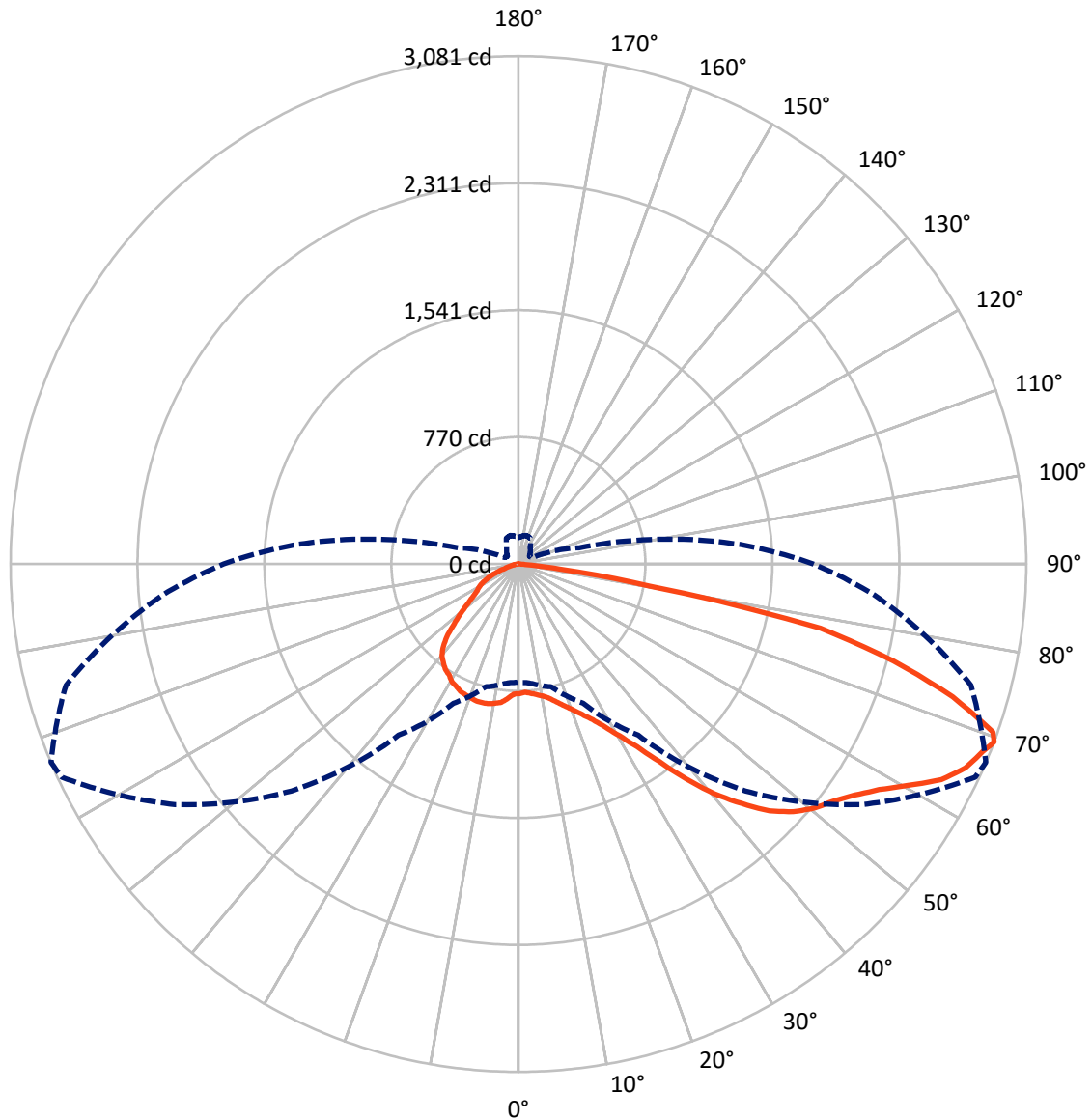


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.1	0.0	1184.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	4073.9	0.0	4073.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	5258.0	0.0	5258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.5
10°-20°	253.9	4.8
20°-30°	437.4	8.3
30°-40°	650.5	12.4
40°-50°	895.9	17.0
50°-60°	1071.0	20.4
60°-70°	1130.2	21.5
70°-80°	677.3	12.9
80°-90°	62.3	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°	5258.0	100.0
0°-180°	5258.0	100.0

Coefficient of Utilization



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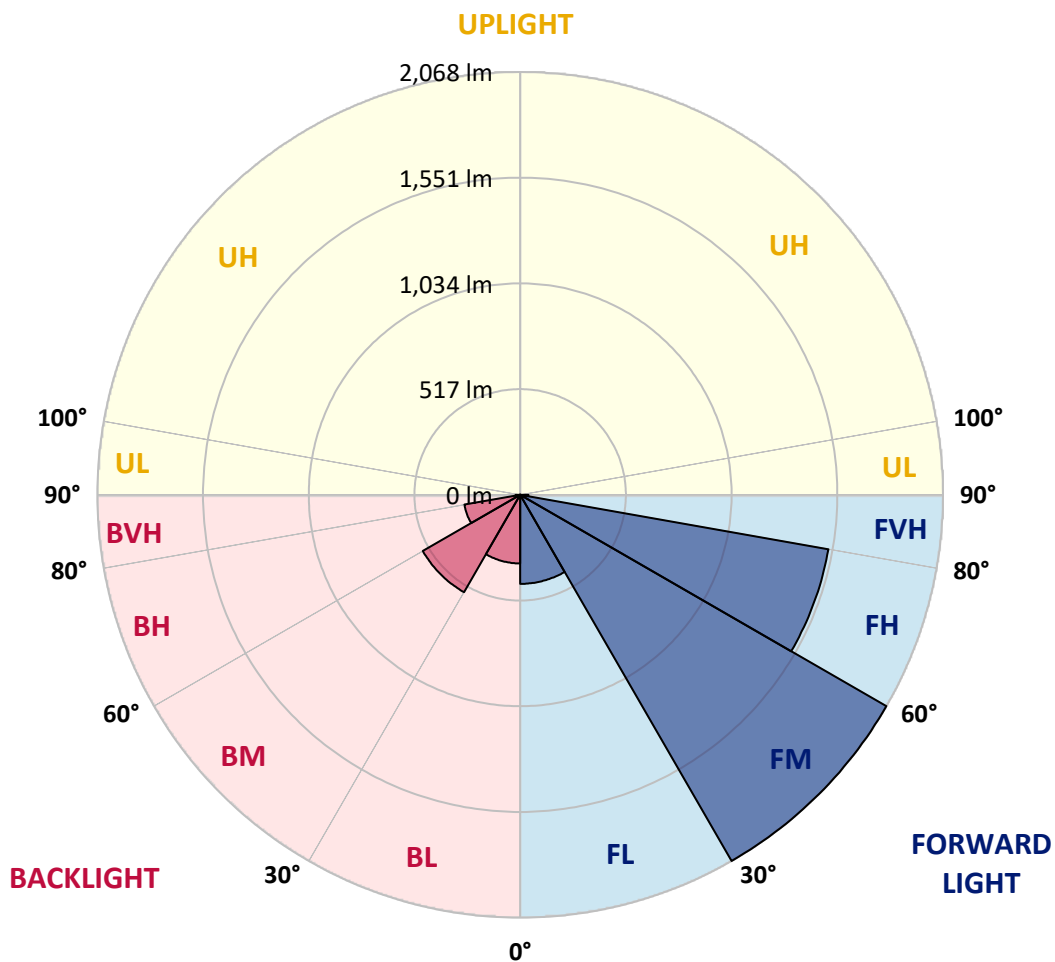
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.4	8.3			
FM	(30°-60°)	2067.7	39.3			
FH	(60°-80°)	1530.6	29.1			G1/1800
FVH	(80°-90°)	40.3	0.8			G1/100
BL	(0°-30°)	335.5	6.4	B1/500		
BM	(30°-60°)	549.7	10.5	B1/1000		
BH	(60°-80°)	276.8	5.3	B1/500		G1/500
BVH	(80°-90°)	22.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5
2.5°	799.4	798.9	796.5	787.9	787.0	786.0	780.3	780.8	779.3	780.8	781.2
5°	821.4	819.5	817.1	808.0	804.7	800.4	791.7	791.3	787.9	788.9	789.8
7.5°	848.6	846.7	844.8	834.3	831.0	823.3	809.9	803.2	800.4	801.3	802.7
10°	885.5	882.1	879.2	863.9	858.7	845.8	829.5	818.0	814.2	815.7	819.5
12.5°	927.5	923.2	918.4	902.7	895.5	875.4	856.3	841.5	835.7	839.1	841.9
15°	971.0	968.6	966.7	948.1	938.0	916.1	892.2	873.5	868.2	871.1	872.5
17.5°	1028.4	1027.0	1023.6	1004.5	985.4	960.0	929.0	909.4	904.1	905.5	902.2
20°	1091.0	1087.2	1085.3	1063.8	1043.7	1008.8	973.0	945.2	943.8	944.3	933.7
22.5°	1161.3	1157.0	1153.2	1133.6	1108.7	1068.1	1021.2	990.2	991.1	992.1	968.6
25°	1233.0	1229.7	1226.3	1207.7	1182.8	1138.4	1082.0	1047.1	1046.6	1047.1	1014.5
27.5°	1308.1	1304.3	1303.8	1288.5	1263.6	1218.2	1153.2	1117.8	1117.8	1115.9	1066.7
30°	1375.0	1378.9	1378.9	1370.3	1346.8	1301.4	1240.2	1204.8	1209.6	1205.8	1143.2
32.5°	1448.2	1447.2	1453.9	1447.2	1428.1	1386.0	1334.9	1312.4	1320.5	1333.0	1270.3
35°	1490.7	1497.4	1514.2	1523.7	1514.6	1480.2	1442.9	1460.1	1471.1	1527.1	1452.0
37.5°	1540.0	1545.7	1568.7	1592.1	1595.9	1577.3	1577.3	1633.7	1655.2	1728.4	1640.9
40°	1573.9	1579.7	1604.5	1631.8	1669.1	1682.0	1715.5	1802.9	1833.5	1882.8	1781.4
42.5°	1553.9	1556.7	1610.3	1676.7	1731.7	1793.9	1846.9	1957.9	1987.0	2021.4	1897.1
45°	1518.5	1523.7	1583.0	1690.1	1784.8	1908.1	1975.1	2103.7	2137.1	2133.8	1986.1
47.5°	1479.3	1487.4	1553.4	1672.9	1830.2	2007.1	2092.2	2226.1	2245.2	2221.3	2047.7
50°	1435.8	1449.6	1519.9	1655.7	1863.2	2093.6	2179.2	2317.9	2327.9	2279.1	2101.8
52.5°	1386.0	1395.1	1473.1	1622.7	1886.1	2151.0	2248.5	2386.2	2390.5	2350.9	2158.7
55°	1317.2	1325.3	1411.9	1578.7	1889.5	2185.0	2293.0	2459.4	2473.7	2435.0	2210.3
57.5°	1243.1	1253.1	1342.1	1515.1	1858.9	2198.8	2346.6	2553.6	2581.3	2525.8	2251.9
60°	1157.0	1169.9	1259.8	1437.7	1798.6	2220.3	2446.5	2690.8	2725.2	2628.6	2291.6
62.5°	1067.6	1074.8	1157.5	1330.6	1704.9	2231.3	2537.3	2847.6	2880.6	2725.7	2310.2
65°	941.9	953.3	1027.0	1202.0	1573.0	2184.0	2579.9	2957.1	2981.0	2804.6	2292.1
67.5°	808.5	808.5	871.1	1048.0	1397.0	2058.7	2562.7	3009.7	3038.4	2860.0	2234.7
69°	716.2	723.4	771.2	932.3	1267.9	1947.3	2544.0	3058.0	3081.4	2842.4	2168.7
70°	645.4	651.7	700.0	848.2	1171.8	1859.4	2503.9	3036.5	3053.7	2787.9	2099.4
72.5°	474.8	480.0	513.5	590.9	881.2	1500.3	2257.6	2745.3	2755.8	2507.2	1852.2
75°	323.7	326.5	351.9	399.2	514.0	1049.0	1844.5	2318.8	2349.9	2174.4	1516.6
77.5°	111.9	120.5	135.8	183.6	219.9	412.1	1250.3	1827.3	1873.7	1683.9	1060.9
80°	38.2	37.8	72.7	94.2	115.7	189.3	395.4	765.9	809.4	694.2	382.0
82.5°	28.7	29.6	48.3	52.1	35.4	69.8	154.0	234.3	256.7	224.2	158.3
85°	18.2	17.7	21.5	22.5	16.3	29.6	37.3	37.8	39.2	33.9	34.4
87.5°	10.0	10.0	9.6	8.1	4.3	3.8	3.3	3.3	2.9	2.9	2.9
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°	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5
2.5°	778.8	785.5	787.0	788.9	793.7	799.9	808.5	808.5	811.8	821.9	825.2
5°	789.8	798.0	808.5	819.5	832.4	846.3	860.1	864.9	871.6	885.0	887.8
7.5°	806.6	815.7	833.8	848.6	859.6	873.5	885.0	886.9	895.5	907.9	910.3
10°	823.8	831.9	850.1	857.7	872.5	887.8	893.6	896.5	903.6	913.2	911.8
12.5°	847.2	849.6	862.5	867.8	874.9	884.5	887.4	887.4	891.7	907.0	907.4
15°	870.2	870.2	872.1	869.2	870.2	874.9	875.4	869.2	874.0	881.6	878.8
17.5°	894.5	887.8	879.2	866.8	855.8	855.3	845.3	830.5	826.2	837.2	836.7
20°	917.5	906.0	885.5	857.2	841.9	821.4	796.1	787.4	787.0	788.9	787.4
22.5°	947.6	924.2	886.9	848.2	806.1	773.6	752.5	723.4	722.4	718.1	711.4
25°	983.5	950.0	893.1	838.1	776.9	734.9	684.2	653.1	635.4	639.2	627.8
27.5°	1029.8	989.2	895.5	816.1	736.8	665.5	604.3	564.2	548.9	542.2	534.5
30°	1093.4	1030.8	912.7	797.5	687.0	592.9	517.8	459.5	437.5	443.2	444.2
32.5°	1195.3	1109.7	921.8	760.7	629.7	513.5	416.0	352.8	339.9	356.2	360.5
35°	1372.6	1232.1	943.3	738.7	564.2	420.7	309.3	283.5	286.4	300.3	301.2
37.5°	1547.2	1387.0	1009.8	690.9	485.8	311.7	240.0	226.1	240.0	257.7	260.1
40°	1669.6	1508.0	1068.6	643.5	375.8	225.7	183.1	166.4	186.5	214.7	219.9
42.5°	1778.1	1604.1	1110.2	578.0	257.2	161.1	131.5	135.8	165.4	186.0	190.8
45°	1856.0	1670.0	1138.9	492.9	164.0	121.9	117.6	131.5	159.7	175.9	177.4
47.5°	1905.3	1708.8	1117.8	388.2	123.4	115.2	115.7	133.4	161.6	179.8	179.3
50°	1949.7	1729.3	1049.4	307.9	117.1	110.4	118.1	138.7	167.8	184.5	183.6
52.5°	1997.1	1749.4	966.3	241.4	112.4	108.1	121.0	142.0	167.8	178.3	176.9
55°	2037.7	1767.1	903.6	194.1	109.0	107.6	123.8	147.3	166.9	171.2	168.3
57.5°	2058.7	1737.0	835.7	163.0	105.7	107.6	125.7	146.3	172.6	186.5	183.6
60°	2047.3	1708.8	780.8	151.6	100.9	107.1	126.7	156.8	211.8	224.7	223.8
62.5°	2026.2	1677.7	703.8	136.3	95.6	108.1	126.2	166.4	243.8	239.5	227.6
65°	1983.2	1615.5	598.6	118.6	90.4	110.0	126.2	187.4	212.8	208.0	202.7
67.5°	1891.4	1481.2	479.1	101.8	84.6	104.2	124.3	178.3	183.1	170.7	164.5
69°	1788.6	1353.0	379.1	92.8	81.3	101.4	123.8	172.1	180.2	166.9	159.7
70°	1708.3	1253.1	306.5	86.1	77.9	100.4	123.4	167.8	178.8	164.0	156.3
72.5°	1422.9	1012.6	160.6	69.3	66.5	91.3	119.0	164.0	179.3	157.3	146.3
75°	1117.8	720.5	106.6	53.1	51.2	79.8	109.0	157.8	168.8	141.5	124.8
77.5°	689.4	315.6	73.6	36.8	37.3	62.2	93.7	141.0	170.2	143.0	121.4
80°	200.3	121.9	46.9	24.9	22.9	36.8	73.6	121.4	161.6	146.8	132.4
82.5°	115.7	79.4	31.6	15.8	13.9	16.7	46.4	94.2	142.5	134.3	137.2
85°	26.3	22.0	11.5	7.6	7.6	9.6	15.8	54.5	98.5	115.2	130.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.4	2.9	14.8	43.0	61.2	71.2
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)