

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: P233506

Luminaire Tested: **VERD-C015-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233506
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-C015-D-U-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 750mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3468 lumens
Efficiency: N/A
Efficacy: 115.6 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): 30
Input Voltage (V): NR
Input Current (A_{in}): 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

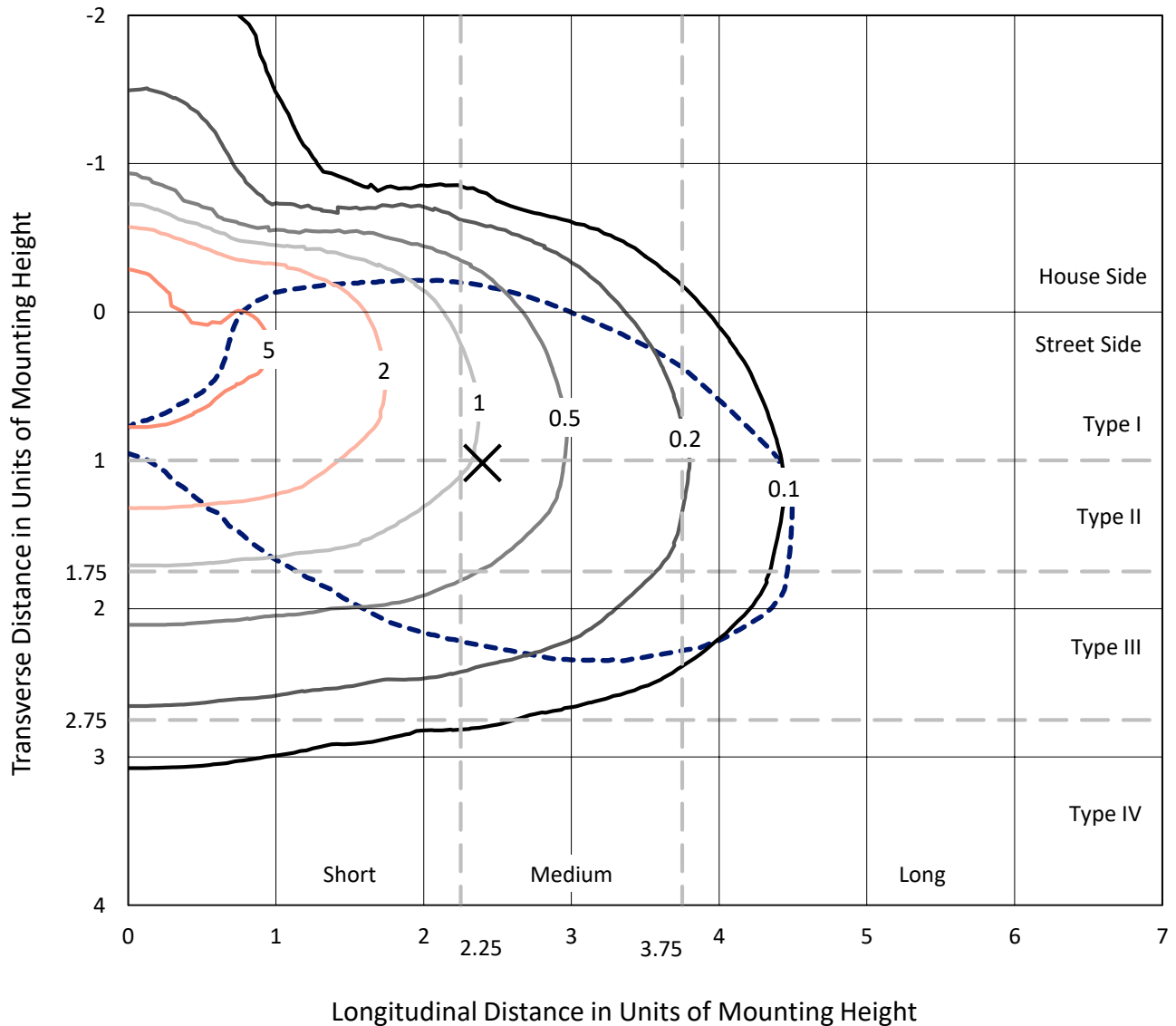


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

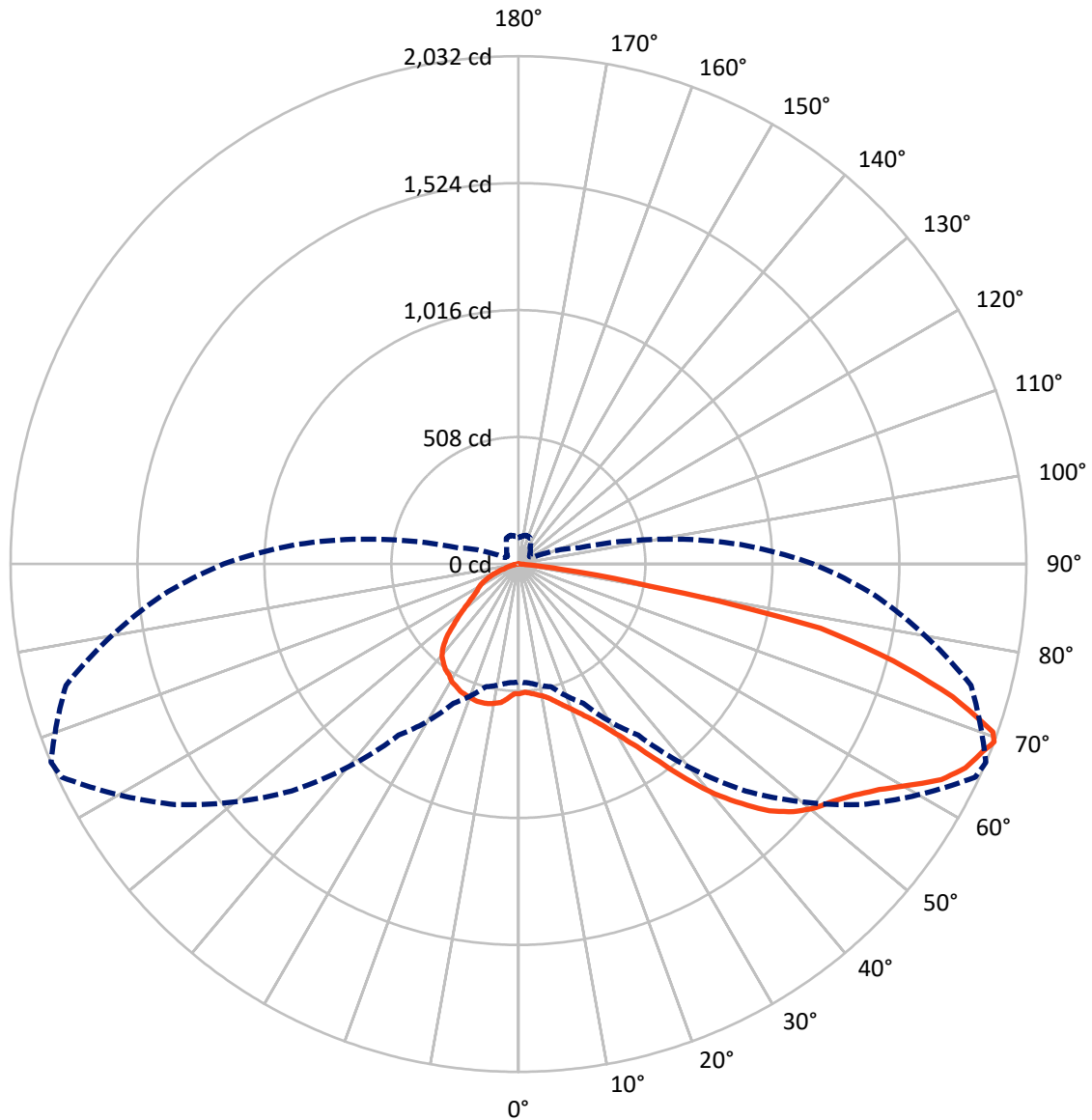


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - Semi-Cutoff

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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	781.0	0.0	781.0
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	2687.0	0.0	2687.0
	% Fixture	77.5	0.0	77.5
Total	Lumens	3468.0	0.0	3468.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.5
10°-20°	167.4	4.8
20°-30°	288.5	8.3
30°-40°	429.1	12.4
40°-50°	590.9	17.0
50°-60°	706.4	20.4
60°-70°	745.4	21.5
70°-80°	446.7	12.9
80°-90°	41.1	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°	3468.0	100.0
0°-180°	3468.0	100.0



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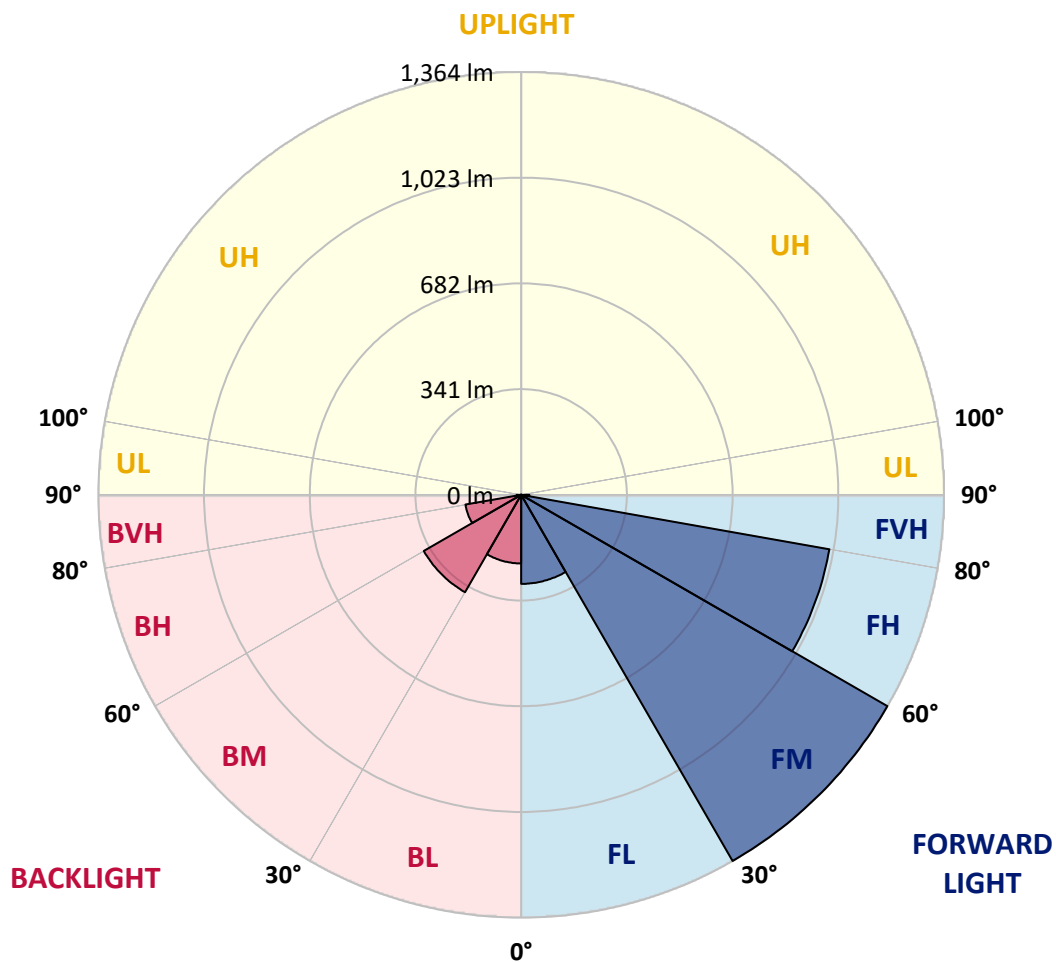
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.2	8.3			
FM (30°-60°)	1363.8	39.3			
FH (60°-80°)	1009.5	29.1			G1/1800
FVH (80°-90°)	26.6	0.8			G1/100
BL (0°-30°)	221.3	6.4	B1/500		
BM (30°-60°)	362.6	10.5	B1/1000		
BH (60°-80°)	182.6	5.3	B1/500		G1/500
BVH (80°-90°)	14.5	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°	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7
2.5°	527.3	526.9	525.4	519.7	519.1	518.4	514.6	515.0	514.0	515.0	515.3
5°	541.8	540.5	538.9	532.9	530.7	527.9	522.2	521.9	519.7	520.3	520.9
7.5°	559.7	558.5	557.2	550.3	548.1	543.0	534.2	529.8	527.9	528.5	529.5
10°	584.0	581.8	579.9	569.8	566.4	557.8	547.1	539.6	537.0	538.0	540.5
12.5°	611.8	608.9	605.8	595.4	590.6	577.4	564.8	555.0	551.2	553.4	555.3
15°	640.5	638.9	637.6	625.3	618.7	604.2	588.4	576.1	572.7	574.6	575.5
17.5°	678.3	677.4	675.2	662.5	649.9	633.2	612.7	599.8	596.3	597.3	595.1
20°	719.6	717.1	715.8	701.6	688.4	665.4	641.7	623.4	622.5	622.8	615.9
22.5°	766.0	763.1	760.6	747.7	731.3	704.5	673.6	653.1	653.7	654.3	638.9
25°	813.3	811.1	808.9	796.6	780.2	750.8	713.6	690.6	690.3	690.6	669.2
27.5°	862.8	860.3	859.9	849.9	833.5	803.5	760.6	737.3	737.3	736.0	703.5
30°	906.9	909.5	909.5	903.8	888.3	858.4	818.0	794.7	797.8	795.3	754.0
32.5°	955.2	954.5	959.0	954.5	941.9	914.2	880.4	865.6	871.0	879.2	837.9
35°	983.2	987.7	998.7	1005.0	999.0	976.3	951.7	963.1	970.3	1007.2	957.7
37.5°	1015.7	1019.5	1034.6	1050.1	1052.6	1040.3	1040.3	1077.5	1091.7	1140.0	1082.3
40°	1038.1	1041.9	1058.3	1076.3	1100.9	1109.4	1131.5	1189.2	1209.3	1241.8	1175.0
42.5°	1024.9	1026.8	1062.1	1105.9	1142.2	1183.2	1218.2	1291.3	1310.6	1333.3	1251.3
45°	1001.5	1005.0	1044.1	1114.7	1177.2	1258.5	1302.7	1387.5	1409.6	1407.4	1309.9
47.5°	975.7	981.0	1024.6	1103.4	1207.1	1323.8	1379.9	1468.2	1480.9	1465.1	1350.6
50°	947.0	956.1	1002.5	1092.0	1228.9	1380.9	1437.3	1528.8	1535.4	1503.2	1386.3
52.5°	914.2	920.2	971.6	1070.3	1244.0	1418.7	1483.1	1573.9	1576.7	1550.5	1423.8
55°	868.8	874.1	931.2	1041.3	1246.2	1441.1	1512.4	1622.1	1631.6	1606.0	1457.8
57.5°	819.9	826.5	885.2	999.3	1226.1	1450.3	1547.7	1684.3	1702.5	1666.0	1485.3
60°	763.1	771.6	830.9	948.2	1186.3	1464.5	1613.6	1774.8	1797.5	1733.8	1511.4
62.5°	704.2	708.9	763.4	877.6	1124.5	1471.7	1673.5	1878.2	1899.9	1797.8	1523.7
65°	621.2	628.8	677.4	792.8	1037.5	1440.5	1701.6	1950.4	1966.2	1849.8	1511.8
67.5°	533.2	533.2	574.6	691.2	921.4	1357.9	1690.2	1985.1	2004.0	1886.4	1473.9
69°	472.4	477.1	508.7	614.9	836.3	1284.4	1677.9	2016.9	2032.4	1874.7	1430.4
70°	425.7	429.8	461.7	559.4	772.9	1226.4	1651.5	2002.8	2014.1	1838.8	1384.7
72.5°	313.1	316.6	338.7	389.8	581.2	989.6	1489.1	1810.7	1817.6	1653.7	1221.6
75°	213.5	215.4	232.1	263.3	339.0	691.9	1216.6	1529.4	1549.9	1434.2	1000.3
77.5°	73.8	79.5	89.6	121.1	145.1	271.8	824.6	1205.2	1235.8	1110.6	699.7
80°	25.2	24.9	47.9	62.1	76.3	124.9	260.8	505.2	533.9	457.9	252.0
82.5°	18.9	19.6	31.8	34.4	23.3	46.0	101.5	154.5	169.3	147.9	104.4
85°	12.0	11.7	14.2	14.8	10.7	19.6	24.6	24.9	25.9	22.4	22.7
87.5°	6.6	6.6	6.3	5.4	2.8	2.5	2.2	2.2	1.9	1.9	1.9
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°	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7	518.7
2.5°	513.7	518.1	519.1	520.3	523.5	527.6	533.2	533.2	535.5	542.1	544.3
5°	520.9	526.3	533.2	540.5	549.0	558.2	567.3	570.5	574.9	583.7	585.6
7.5°	532.0	538.0	550.0	559.7	567.0	576.1	583.7	585.0	590.6	598.8	600.4
10°	543.3	548.7	560.7	565.7	575.5	585.6	589.4	591.3	596.0	602.3	601.4
12.5°	558.8	560.4	568.9	572.3	577.1	583.4	585.3	585.3	588.1	598.2	598.5
15°	573.9	573.9	575.2	573.3	573.9	577.1	577.4	573.3	576.4	581.5	579.6
17.5°	590.0	585.6	579.9	571.7	564.5	564.2	557.5	547.8	544.9	552.2	551.9
20°	605.1	597.6	584.0	565.4	555.3	541.8	525.0	519.4	519.1	520.3	519.4
22.5°	625.0	609.6	585.0	559.4	531.7	510.2	496.4	477.1	476.5	473.6	469.2
25°	648.7	626.6	589.1	552.8	512.4	484.7	451.3	430.8	419.1	421.6	414.0
27.5°	679.3	652.4	590.6	538.3	485.9	439.0	398.6	372.1	362.0	357.6	352.6
30°	721.2	679.9	602.0	526.0	453.1	391.0	341.5	303.0	288.5	292.3	293.0
32.5°	788.4	731.9	608.0	501.7	415.3	338.7	274.3	232.7	224.2	234.9	237.8
35°	905.4	812.6	622.2	487.2	372.1	277.5	204.0	187.0	188.9	198.0	198.7
37.5°	1020.5	914.8	666.0	455.7	320.4	205.6	158.3	149.2	158.3	170.0	171.5
40°	1101.2	994.6	704.8	424.5	247.9	148.8	120.8	109.7	123.0	141.6	145.1
42.5°	1172.8	1058.0	732.2	381.3	169.7	106.3	86.7	89.6	109.1	122.7	125.8
45°	1224.2	1101.5	751.2	325.1	108.2	80.4	77.6	86.7	105.3	116.0	117.0
47.5°	1256.6	1127.0	737.3	256.1	81.4	76.0	76.3	88.0	106.6	118.6	118.3
50°	1286.0	1140.6	692.2	203.1	77.3	72.8	77.9	91.4	110.7	121.7	121.1
52.5°	1317.2	1153.8	637.3	159.2	74.1	71.3	79.8	93.7	110.7	117.6	116.7
55°	1344.0	1165.5	596.0	128.0	71.9	71.0	81.7	97.1	110.1	112.9	111.0
57.5°	1357.9	1145.6	551.2	107.5	69.7	71.0	82.9	96.5	113.8	123.0	121.1
60°	1350.3	1127.0	515.0	100.0	66.5	70.6	83.6	103.4	139.7	148.2	147.6
62.5°	1336.4	1106.5	464.2	89.9	63.1	71.3	83.3	109.7	160.8	158.0	150.1
65°	1308.0	1065.5	394.8	78.2	59.6	72.5	83.3	123.6	140.3	137.2	133.7
67.5°	1247.5	976.9	316.0	67.2	55.8	68.7	82.0	117.6	120.8	112.6	108.5
69°	1179.7	892.4	250.1	61.2	53.6	66.9	81.7	113.5	118.9	110.1	105.3
70°	1126.7	826.5	202.1	56.8	51.4	66.2	81.4	110.7	117.9	108.2	103.1
72.5°	938.5	667.9	106.0	45.7	43.8	60.2	78.5	108.2	118.3	103.7	96.5
75°	737.3	475.2	70.3	35.0	33.7	52.7	71.9	104.1	111.3	93.3	82.3
77.5°	454.7	208.1	48.6	24.3	24.6	41.0	61.8	93.0	112.3	94.3	80.1
80°	132.1	80.4	30.9	16.4	15.1	24.3	48.6	80.1	106.6	96.8	87.4
82.5°	76.3	52.3	20.8	10.4	9.1	11.0	30.6	62.1	94.0	88.6	90.5
85°	17.3	14.5	7.6	5.0	5.0	6.3	10.4	35.9	65.0	76.0	85.8
87.5°	1.9	1.9	1.9	1.9	1.9	1.6	1.9	9.8	28.4	40.4	47.0
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)