

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: P233507

Luminaire Tested: **VERD-C016-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233507
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-C016-D-U-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 950mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285 lumens
Efficiency: N/A
Efficacy: 109.9 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): 39
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

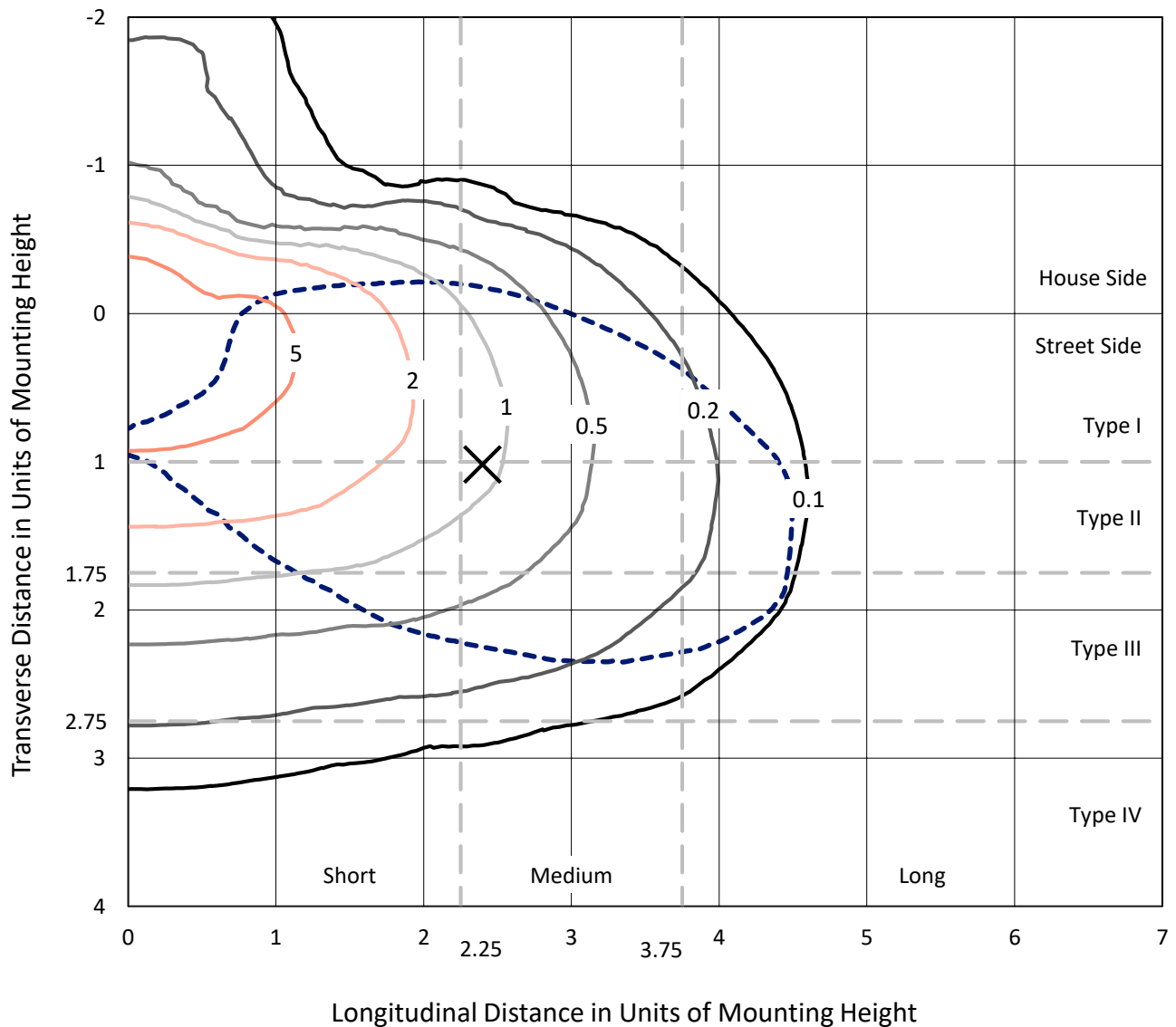


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

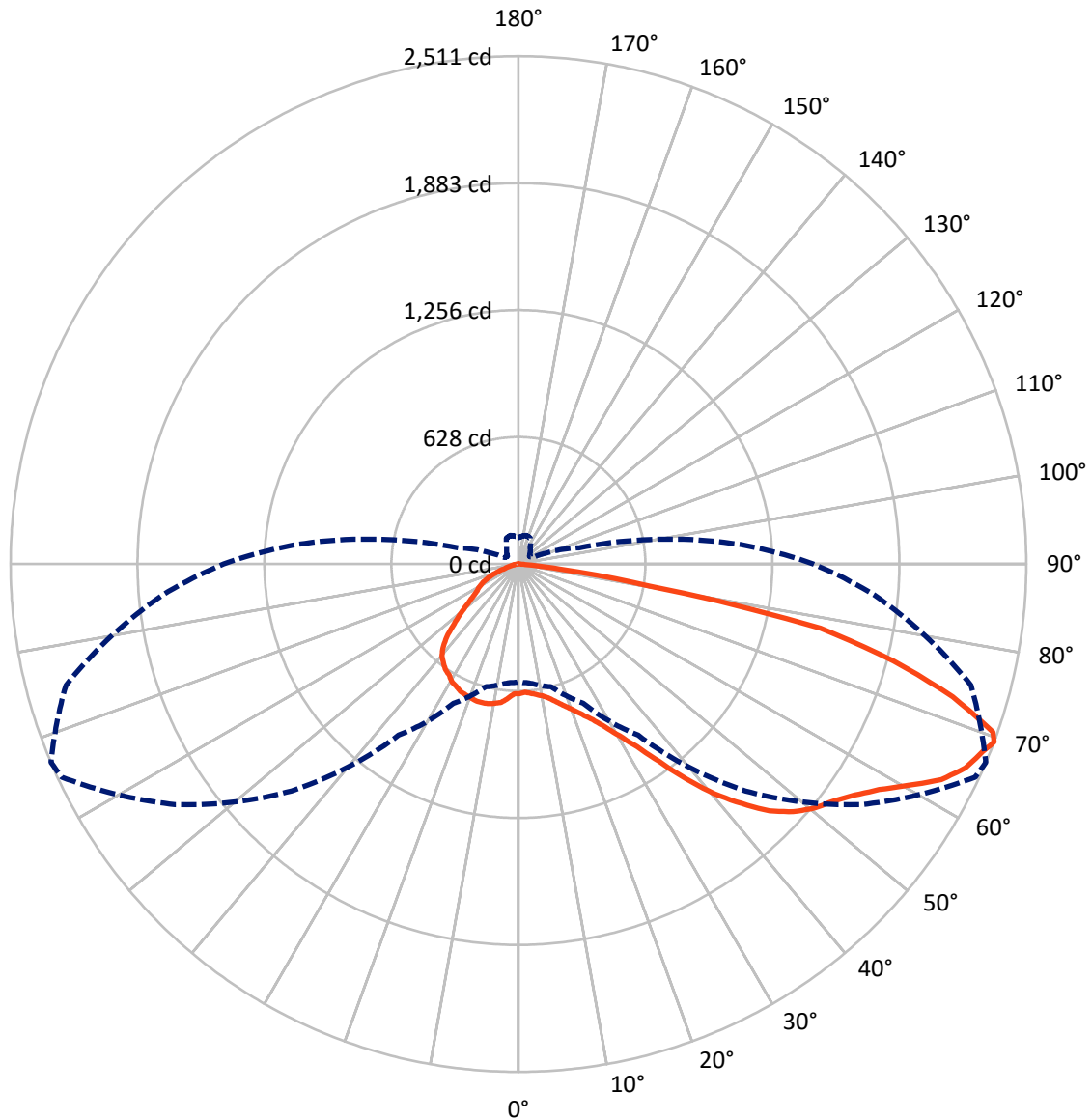


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - Semi-Cutoff

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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	964.9	0.0	964.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	3320.1	0.0	3320.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	4285.0	0.0	4285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.5
10°-20°	206.9	4.8
20°-30°	356.4	8.3
30°-40°	530.1	12.4
40°-50°	730.1	17.0
50°-60°	872.8	20.4
60°-70°	921.0	21.5
70°-80°	551.9	12.9
80°-90°	50.8	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°	4285.0	100.0
0°-180°	4285.0	100.0

Coefficient of Utilization



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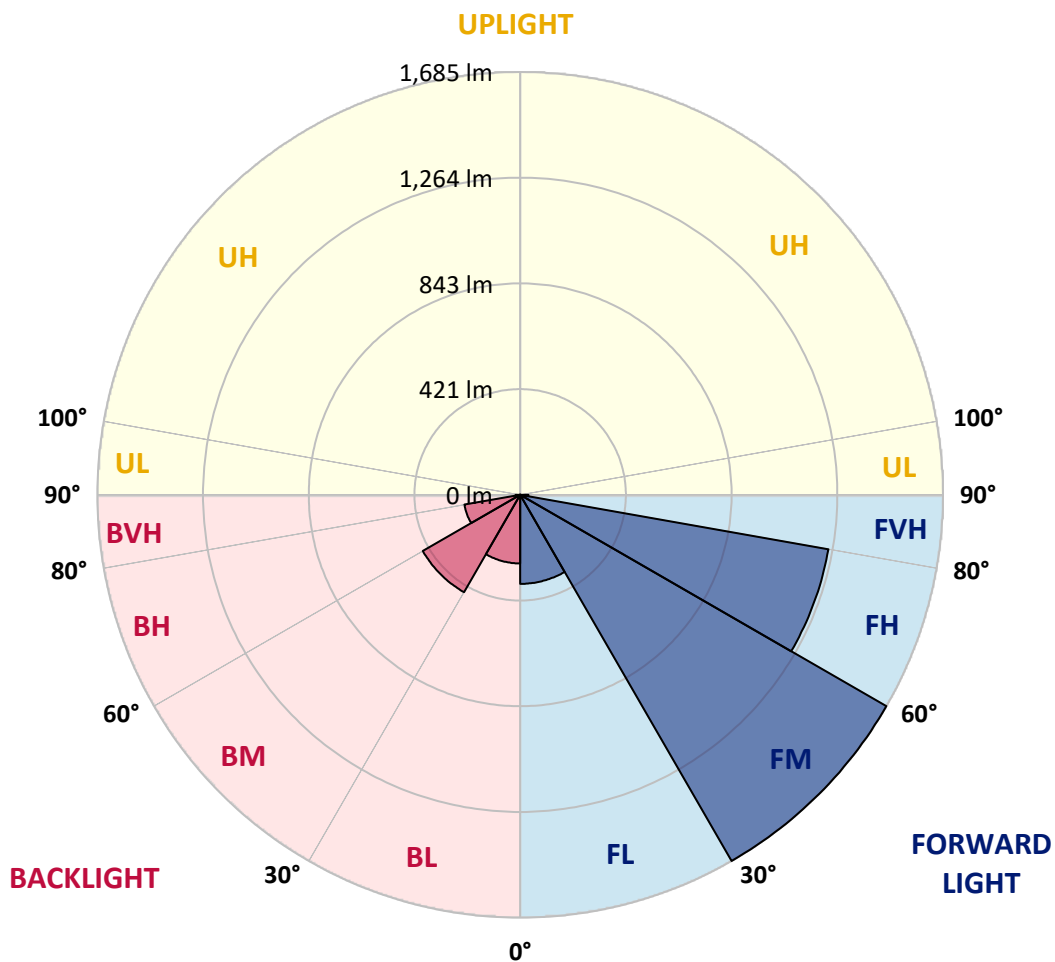
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.8	8.3			
FM	(30°-60°)	1685.1	39.3			
FH	(60°-80°)	1247.4	29.1			G1/1800
FVH	(80°-90°)	32.8	0.8			G1/100
BL	(0°-30°)	273.4	6.4	B1/500		
BM	(30°-60°)	448.0	10.5	B1/1000		
BH	(60°-80°)	225.6	5.3	B1/500		G1/500
BVH	(80°-90°)	17.9	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°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	651.5	651.1	649.1	642.1	641.3	640.6	635.9	636.3	635.1	636.3	636.7
5°	669.4	667.8	665.9	658.5	655.8	652.2	645.2	644.8	642.1	642.9	643.7
7.5°	691.6	690.0	688.5	679.9	677.2	670.9	660.0	654.6	652.2	653.0	654.2
10°	721.6	718.9	716.5	704.1	699.8	689.3	676.0	666.7	663.5	664.7	667.8
12.5°	755.9	752.4	748.5	735.6	729.8	713.4	697.8	685.8	681.1	683.8	686.1
15°	791.3	789.4	787.8	772.6	764.5	746.5	727.1	711.9	707.6	709.9	711.1
17.5°	838.1	836.9	834.2	818.6	803.0	782.4	757.1	741.1	736.8	738.0	735.2
20°	889.1	886.0	884.5	866.9	850.6	822.1	792.9	770.3	769.1	769.5	761.0
22.5°	946.4	942.9	939.8	923.8	903.6	870.4	832.3	806.9	807.7	808.5	789.4
25°	1004.9	1002.1	999.4	984.2	964.0	927.7	881.7	853.3	852.9	853.3	826.8
27.5°	1066.0	1062.9	1062.5	1050.1	1029.8	992.8	939.8	911.0	911.0	909.4	869.3
30°	1120.6	1123.7	1123.7	1116.7	1097.6	1060.6	1010.7	981.9	985.8	982.7	931.6
32.5°	1180.2	1179.4	1184.9	1179.4	1163.8	1129.5	1087.9	1069.5	1076.2	1086.3	1035.3
35°	1214.9	1220.3	1234.0	1241.8	1234.4	1206.3	1175.9	1189.9	1198.9	1244.5	1183.3
37.5°	1255.0	1259.7	1278.4	1297.5	1300.6	1285.4	1285.4	1331.4	1348.9	1408.5	1337.2
40°	1282.7	1287.4	1307.6	1329.8	1360.2	1370.7	1398.0	1469.3	1494.2	1534.4	1451.8
42.5°	1266.3	1268.6	1312.3	1366.4	1411.3	1461.9	1505.2	1595.6	1619.3	1647.4	1546.1
45°	1237.5	1241.8	1290.1	1377.4	1454.5	1555.0	1609.6	1714.4	1741.7	1738.9	1618.5
47.5°	1205.5	1212.2	1265.9	1363.3	1491.5	1635.7	1705.0	1814.1	1829.7	1810.2	1668.8
50°	1170.1	1181.4	1238.6	1349.3	1518.4	1706.2	1776.0	1888.9	1897.1	1857.4	1712.8
52.5°	1129.5	1137.0	1200.5	1322.4	1537.1	1753.0	1832.4	1944.7	1948.2	1915.8	1759.2
55°	1073.4	1080.1	1150.6	1286.6	1539.8	1780.6	1868.7	2004.3	2016.0	1984.4	1801.3
57.5°	1013.0	1021.2	1093.7	1234.7	1514.9	1791.9	1912.3	2081.0	2103.6	2058.4	1835.2
60°	942.9	953.4	1026.7	1171.6	1465.8	1809.5	1993.8	2192.9	2220.9	2142.2	1867.5
62.5°	870.1	875.9	943.3	1084.4	1389.4	1818.4	2067.8	2320.7	2347.5	2221.3	1882.7
65°	767.6	776.9	836.9	979.5	1281.9	1779.8	2102.5	2409.9	2429.4	2285.6	1867.9
67.5°	658.9	658.9	709.9	854.1	1138.5	1677.8	2088.4	2452.7	2476.1	2330.8	1821.1
69°	583.7	589.5	628.5	759.8	1033.3	1587.0	2073.2	2492.1	2511.2	2316.4	1767.4
70°	526.0	531.1	570.4	691.2	955.0	1515.3	2040.5	2474.6	2488.6	2272.0	1710.9
72.5°	386.9	391.2	418.5	481.6	718.1	1222.7	1839.9	2237.3	2245.8	2043.2	1509.4
75°	263.8	266.1	286.8	325.3	418.9	854.9	1503.2	1889.7	1915.1	1772.1	1235.9
77.5°	91.2	98.2	110.7	149.6	179.2	335.9	1018.9	1489.2	1527.0	1372.3	864.6
80°	31.2	30.8	59.2	76.8	94.3	154.3	322.2	624.2	659.7	565.7	311.3
82.5°	23.4	24.2	39.4	42.5	28.8	56.9	125.5	190.9	209.2	182.7	129.0
85°	14.8	14.4	17.5	18.3	13.2	24.2	30.4	30.8	31.9	27.7	28.1
87.5°	8.2	8.2	7.8	6.6	3.5	3.1	2.7	2.7	2.3	2.3	2.3
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°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	634.7	640.2	641.3	642.9	646.8	651.9	658.9	658.9	661.6	669.8	672.5
5°	643.7	650.3	658.9	667.8	678.4	689.7	701.0	704.8	710.3	721.2	723.6
7.5°	657.3	664.7	679.5	691.6	700.6	711.9	721.2	722.8	729.8	739.9	741.9
10°	671.3	678.0	692.8	699.0	711.1	723.6	728.2	730.6	736.4	744.2	743.0
12.5°	690.4	692.4	702.9	707.2	713.0	720.8	723.2	723.2	726.7	739.1	739.5
15°	709.1	709.1	710.7	708.4	709.1	713.0	713.4	708.4	712.3	718.5	716.1
17.5°	729.0	723.6	716.5	706.4	697.4	697.1	688.9	676.8	673.3	682.2	681.9
20°	747.7	738.4	721.6	698.6	686.1	669.4	648.7	641.7	641.3	642.9	641.7
22.5°	772.3	753.2	722.8	691.2	656.9	630.4	613.3	589.5	588.7	585.2	579.8
25°	801.5	774.2	727.8	683.0	633.2	598.9	557.6	532.2	517.8	520.9	511.6
27.5°	839.3	806.2	729.8	665.1	600.4	542.4	492.5	459.8	447.3	441.8	435.6
30°	891.1	840.1	743.8	649.9	559.9	483.1	422.0	374.4	356.5	361.2	362.0
32.5°	974.1	904.3	751.2	619.9	513.1	418.5	339.0	287.5	277.0	290.3	293.8
35°	1118.6	1004.1	768.7	602.0	459.8	342.9	252.1	231.1	233.4	244.7	245.5
37.5°	1260.9	1130.3	822.9	563.0	395.9	254.0	195.6	184.3	195.6	210.0	212.0
40°	1360.6	1228.9	870.8	524.4	306.3	183.9	149.2	135.6	152.0	174.9	179.2
42.5°	1449.0	1307.2	904.7	471.1	209.6	131.3	107.1	110.7	134.8	151.6	155.5
45°	1512.6	1361.0	928.1	401.7	133.6	99.4	95.8	107.1	130.1	143.4	144.6
47.5°	1552.7	1392.6	911.0	316.4	100.5	93.9	94.3	108.7	131.7	146.5	146.1
50°	1588.9	1409.3	855.2	250.9	95.5	90.0	96.2	113.0	136.8	150.4	149.6
52.5°	1627.5	1425.7	787.5	196.8	91.6	88.1	98.6	115.7	136.8	145.3	144.2
55°	1660.6	1440.1	736.4	158.2	88.8	87.7	100.9	120.0	136.0	139.5	137.2
57.5°	1677.8	1415.5	681.1	132.9	86.1	87.7	102.5	119.2	140.7	152.0	149.6
60°	1668.4	1392.6	636.3	123.5	82.2	87.3	103.3	127.8	172.6	183.1	182.3
62.5°	1651.3	1367.2	573.5	111.0	77.9	88.1	102.9	135.6	198.7	195.2	185.5
65°	1616.2	1316.6	487.8	96.6	73.6	89.6	102.9	152.7	173.4	169.5	165.2
67.5°	1541.4	1207.1	390.4	83.0	69.0	84.9	101.3	145.3	149.2	139.1	134.0
69°	1457.6	1102.7	309.0	75.6	66.2	82.6	100.9	140.3	146.9	136.0	130.1
70°	1392.2	1021.2	249.8	70.1	63.5	81.8	100.5	136.8	145.7	133.6	127.4
72.5°	1159.6	825.2	130.9	56.5	54.2	74.4	97.0	133.6	146.1	128.2	119.2
75°	911.0	587.2	86.9	43.2	41.7	65.1	88.8	128.6	137.5	115.3	101.7
77.5°	561.9	257.2	60.0	30.0	30.4	50.7	76.4	114.9	138.7	116.5	99.0
80°	163.3	99.4	38.2	20.3	18.7	30.0	60.0	99.0	131.7	119.6	107.9
82.5°	94.3	64.7	25.7	12.9	11.3	13.6	37.8	76.8	116.1	109.5	111.8
85°	21.4	17.9	9.4	6.2	6.2	7.8	12.9	44.4	80.3	93.9	106.0
87.5°	2.3	2.3	2.3	2.3	2.3	1.9	2.3	12.1	35.1	49.9	58.1
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)