

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: P507426

Luminaire Tested: **VERD-S-CA1-20-722-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-722-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 430mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2685 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

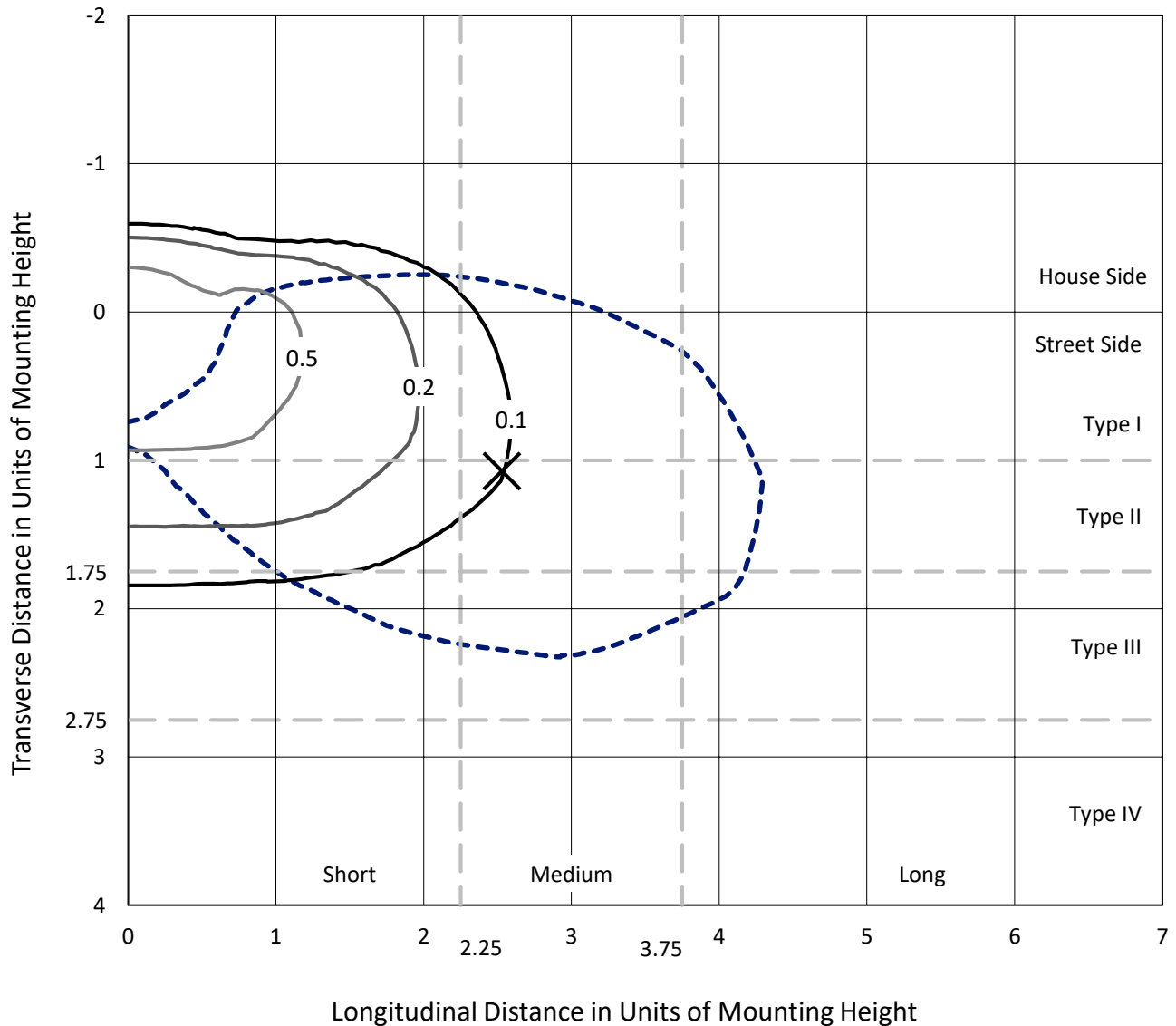
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

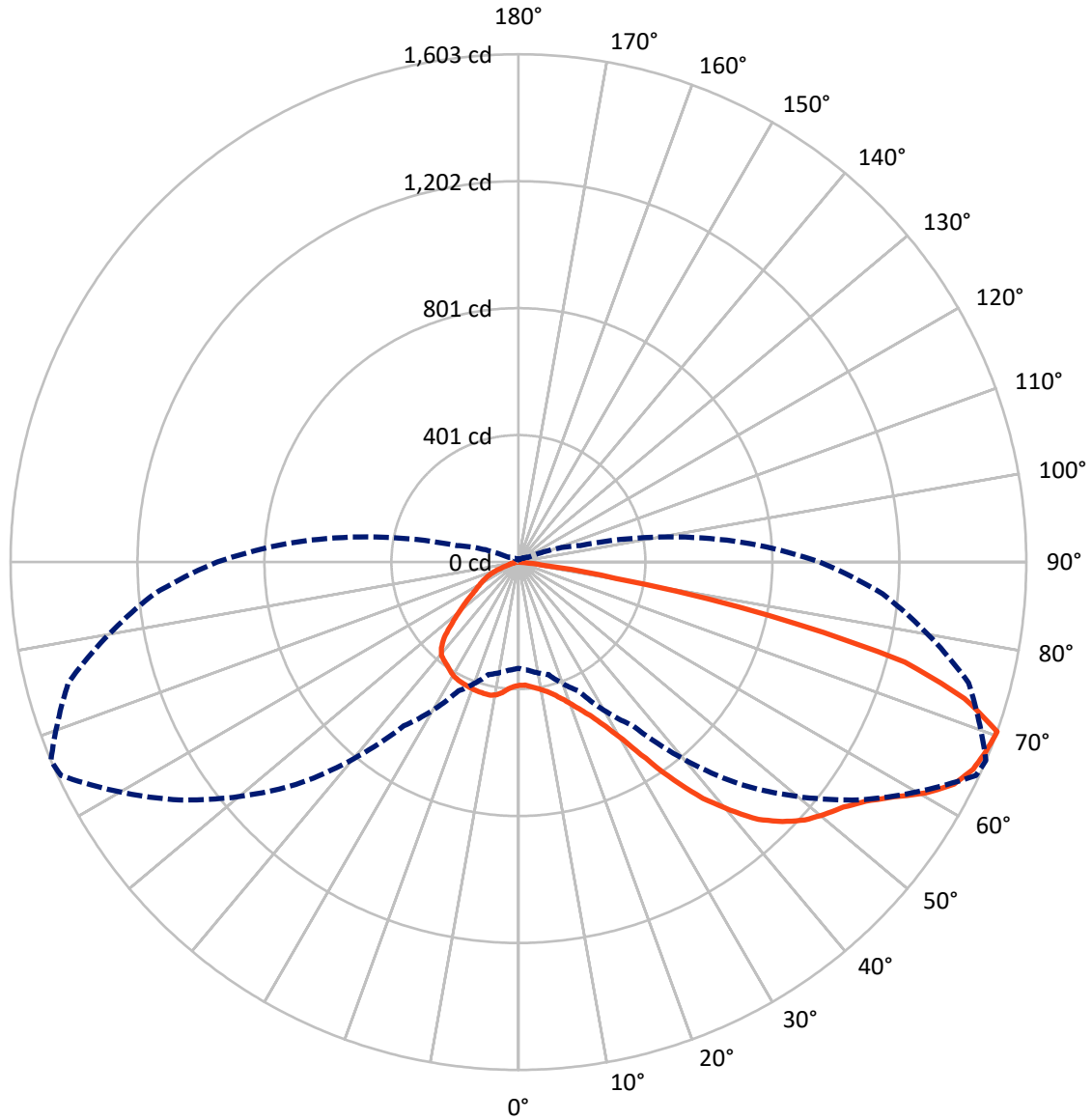
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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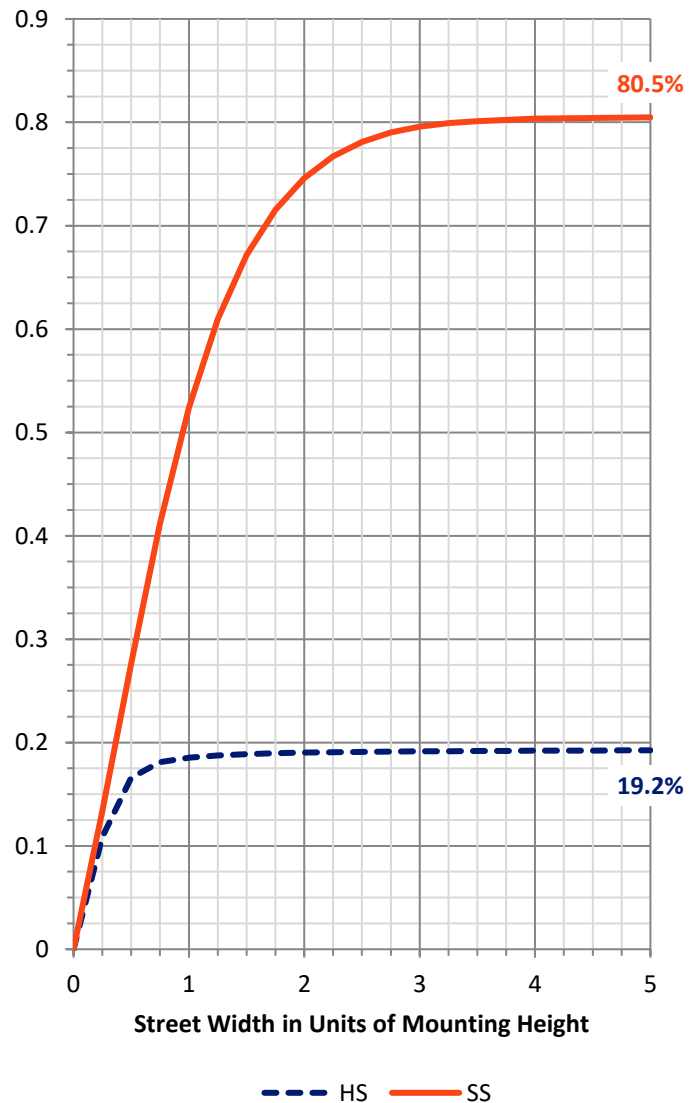
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.3	0.0	523.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	2161.7	0.0	2161.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	2685.0	0.0	2685.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	1.5
10°-20°	123.9	4.6
20°-30°	215.4	8.0
30°-40°	337.3	12.6
40°-50°	474.6	17.7
50°-60°	566.0	21.1
60°-70°	586.5	21.8
70°-80°	323.7	12.1
80°-90°	18.4	0.7
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°	2685.0	100.0
0°-180°	2685.0	100.0



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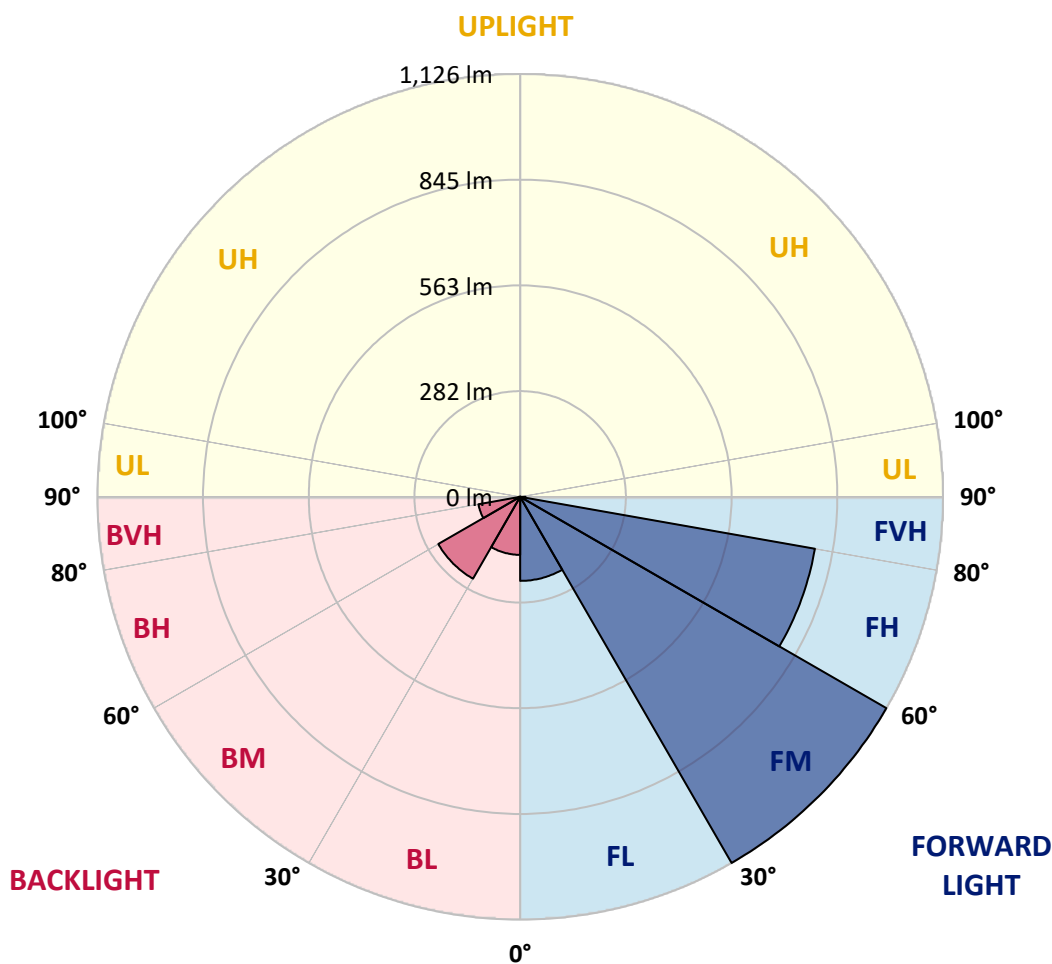
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.0	8.3			
FM (30°-60°)	1126.2	41.9			
FH (60°-80°)	797.2	29.7			G1/1800
FVH (80°-90°)	14.3	0.5			G1/100
BL (0°-30°)	154.5	5.8	B1/500		
BM (30°-60°)	251.7	9.4	B1/1000		
BH (60°-80°)	113.0	4.2	B1/500		G1/500
BVH (80°-90°)	4.1	0.2			G0/10
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°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8
2.5°	391.3	391.3	391.3	390.5	390.5	390.5	389.6	388.8	388.8	388.8	389.6
5°	401.9	401.9	401.1	400.2	399.4	397.0	395.4	394.5	394.5	393.7	395.4
7.5°	414.9	414.9	414.9	413.3	410.8	407.6	404.3	401.9	401.1	400.2	401.1
10°	434.5	434.5	432.9	430.4	426.3	421.4	415.7	410.8	410.0	408.4	410.0
12.5°	459.8	457.3	455.7	451.6	446.7	438.6	429.6	422.3	420.6	419.0	424.7
15°	485.8	485.0	480.9	478.5	470.4	459.8	447.5	437.7	436.1	432.9	437.7
17.5°	516.8	517.6	516.0	511.9	500.5	485.0	470.4	456.5	454.9	452.4	454.9
20°	559.2	557.6	554.3	548.6	535.6	515.2	496.4	480.9	478.5	476.9	474.4
22.5°	601.6	602.4	595.9	590.2	573.9	554.3	529.0	510.3	507.0	506.2	494.8
25°	642.4	644.0	641.5	634.2	620.3	595.1	567.4	544.5	540.5	539.6	520.1
27.5°	684.7	685.6	688.0	684.7	670.1	644.0	613.0	586.9	586.9	580.4	551.1
30°	725.5	727.1	728.8	728.8	721.4	698.6	671.7	648.9	648.9	644.0	593.4
32.5°	757.3	758.1	767.9	776.0	776.0	759.7	741.8	739.4	738.5	747.5	690.4
35°	785.8	788.3	802.1	824.1	833.1	826.6	827.4	836.4	845.3	867.3	824.1
37.5°	807.0	810.3	823.3	848.6	873.9	891.0	907.3	931.7	945.6	979.0	919.5
40°	812.7	816.8	844.5	880.4	921.1	960.3	989.6	1019.8	1028.7	1052.4	977.4
42.5°	794.8	798.9	833.9	906.5	963.5	1024.7	1056.5	1094.8	1110.3	1101.3	1025.5
45°	782.6	785.0	821.7	904.0	1000.2	1087.4	1118.4	1158.4	1168.1	1146.9	1065.4
47.5°	767.1	769.5	807.8	900.8	1030.4	1141.2	1162.4	1206.4	1216.2	1183.6	1099.7
50°	744.2	745.9	789.9	894.2	1049.9	1179.5	1203.2	1247.2	1251.3	1217.9	1132.3
52.5°	716.5	721.4	763.8	878.7	1063.8	1203.2	1231.7	1279.0	1284.7	1261.9	1168.1
55°	679.0	684.7	733.6	855.9	1058.9	1211.3	1244.8	1321.4	1331.2	1312.4	1198.3
57.5°	640.7	648.9	697.0	824.1	1039.3	1223.6	1288.0	1384.2	1397.2	1362.1	1222.7
60°	601.6	604.9	654.6	780.9	1006.7	1235.8	1336.9	1466.5	1478.7	1411.1	1242.3
62.5°	556.8	560.8	604.9	721.4	950.5	1224.4	1373.6	1535.8	1543.1	1451.8	1250.5
65°	504.6	504.6	542.1	648.9	874.7	1183.6	1378.4	1571.6	1576.5	1477.9	1240.7
67.5°	432.0	435.3	465.5	559.2	772.8	1103.7	1350.7	1579.8	1592.0	1494.2	1213.8
70°	335.0	342.4	367.6	448.3	630.9	992.9	1309.2	1592.8	1602.6	1470.6	1153.5
72.5°	229.1	236.4	259.2	307.3	454.9	796.4	1184.4	1469.7	1472.2	1355.6	1036.1
75°	60.3	66.8	84.8	123.1	190.7	535.6	947.2	1244.8	1259.4	1172.2	855.1
77.5°	17.9	17.9	22.0	28.5	39.1	109.2	481.8	793.2	807.8	772.8	533.1
80°	13.9	13.9	16.3	19.6	25.3	56.2	167.1	292.6	310.6	331.8	220.1
82.5°	9.0	9.8	10.6	11.4	11.4	22.8	44.8	75.0	74.2	80.7	70.9
85°	5.7	5.7	4.9	4.9	4.1	5.7	4.1	4.9	5.7	5.7	6.5
87.5°	0.8	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6	1.6	2.4
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°	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8	388.8
2.5°	390.5	391.3	392.1	392.9	394.5	394.5	395.4	395.4	395.4	395.4	395.4
5°	395.4	396.2	398.6	401.1	406.8	410.0	413.3	415.7	415.7	417.4	417.4
7.5°	402.7	405.1	412.5	415.7	420.6	425.5	428.0	428.8	430.4	430.4	430.4
10°	414.9	417.4	423.1	425.5	428.0	428.0	427.1	426.3	423.9	423.1	423.9
12.5°	426.3	429.6	429.6	428.8	426.3	423.1	419.0	414.9	410.8	407.6	407.6
15°	440.2	438.6	433.7	427.1	420.6	412.5	404.3	397.0	390.5	388.0	388.0
17.5°	452.4	448.3	437.7	425.5	411.7	398.6	385.6	373.3	361.9	357.9	355.4
20°	467.1	459.8	441.0	422.3	402.7	382.3	360.3	338.3	318.7	310.6	309.8
22.5°	484.2	472.0	445.9	417.4	391.3	360.3	323.6	292.6	273.1	263.3	261.7
25°	504.6	486.7	450.8	413.3	377.4	331.8	282.9	247.8	223.4	212.8	208.7
27.5°	529.9	506.2	457.3	408.4	356.2	296.7	241.3	200.5	173.6	160.6	159.0
30°	562.5	529.9	463.8	401.1	330.1	256.0	196.5	150.8	123.9	110.9	107.6
32.5°	637.5	578.0	472.0	388.8	297.5	216.8	148.4	101.1	74.2	62.0	61.1
35°	764.6	686.4	490.7	372.5	264.9	170.4	95.4	53.8	39.9	35.1	35.1
37.5°	860.0	776.9	541.3	351.3	222.5	114.1	48.9	31.8	25.3	24.5	24.5
40°	917.1	830.7	596.7	327.7	172.0	61.1	30.2	24.5	22.8	22.0	22.0
42.5°	964.3	875.5	622.8	298.4	109.2	34.2	25.3	22.8	21.2	20.4	20.4
45°	1003.5	909.7	626.0	260.9	61.1	28.5	23.6	20.4	19.6	18.7	18.7
47.5°	1034.4	939.1	617.9	207.9	38.3	26.9	22.0	18.7	17.1	17.1	17.1
50°	1063.8	964.3	595.1	163.8	35.9	25.3	20.4	17.1	16.3	16.3	16.3
52.5°	1090.7	982.3	556.8	132.1	33.4	23.6	19.6	16.3	14.7	15.5	15.5
55°	1112.7	989.6	517.6	101.9	31.8	22.8	18.7	15.5	13.9	13.9	13.9
57.5°	1124.9	974.1	485.0	77.4	31.0	22.0	17.9	14.7	12.2	11.4	11.4
60°	1125.7	953.7	454.9	65.2	29.3	20.4	17.1	13.0	10.6	9.8	9.8
62.5°	1111.1	929.3	409.2	56.2	27.7	19.6	15.5	12.2	9.8	9.0	9.0
65°	1082.5	886.1	358.7	48.1	26.9	19.6	13.9	11.4	9.8	8.2	8.2
67.5°	1036.9	814.4	291.0	42.4	25.3	17.9	13.9	10.6	9.0	8.2	8.2
70°	950.5	711.6	201.3	36.7	23.6	16.3	13.0	10.6	9.0	7.3	7.3
72.5°	819.2	578.0	99.5	30.2	20.4	16.3	13.0	9.8	8.2	7.3	7.3
75°	633.4	414.1	60.3	24.5	16.3	14.7	12.2	9.8	8.2	6.5	6.5
77.5°	372.5	184.2	43.2	18.7	12.2	11.4	10.6	9.0	7.3	6.5	6.5
80°	136.1	78.3	31.8	14.7	9.8	9.8	8.2	7.3	6.5	5.7	5.7
82.5°	53.0	41.6	21.2	10.6	8.2	7.3	6.5	5.7	4.9	4.9	4.9
85°	7.3	7.3	7.3	5.7	4.9	4.9	4.1	4.1	3.3	3.3	3.3
87.5°	2.4	2.4	2.4	3.3	2.4	2.4	1.6	1.6	1.6	2.4	2.4
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)