

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: P507436

Luminaire Tested: **VERD-S-CA1-20-727-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-727-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 430mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2678 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

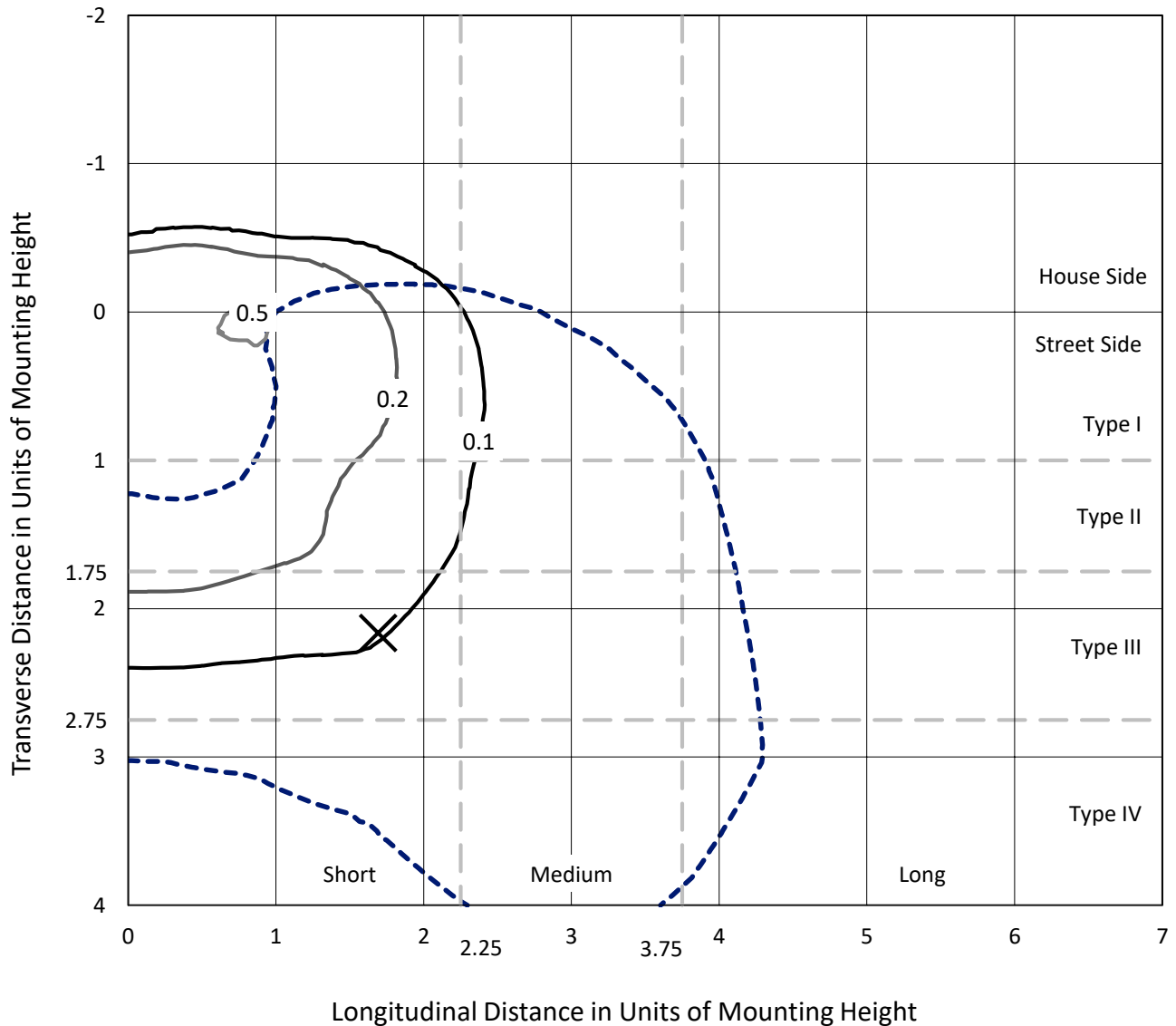
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507436
 CATALOG NUMBER: VERD-S-CA1-20-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

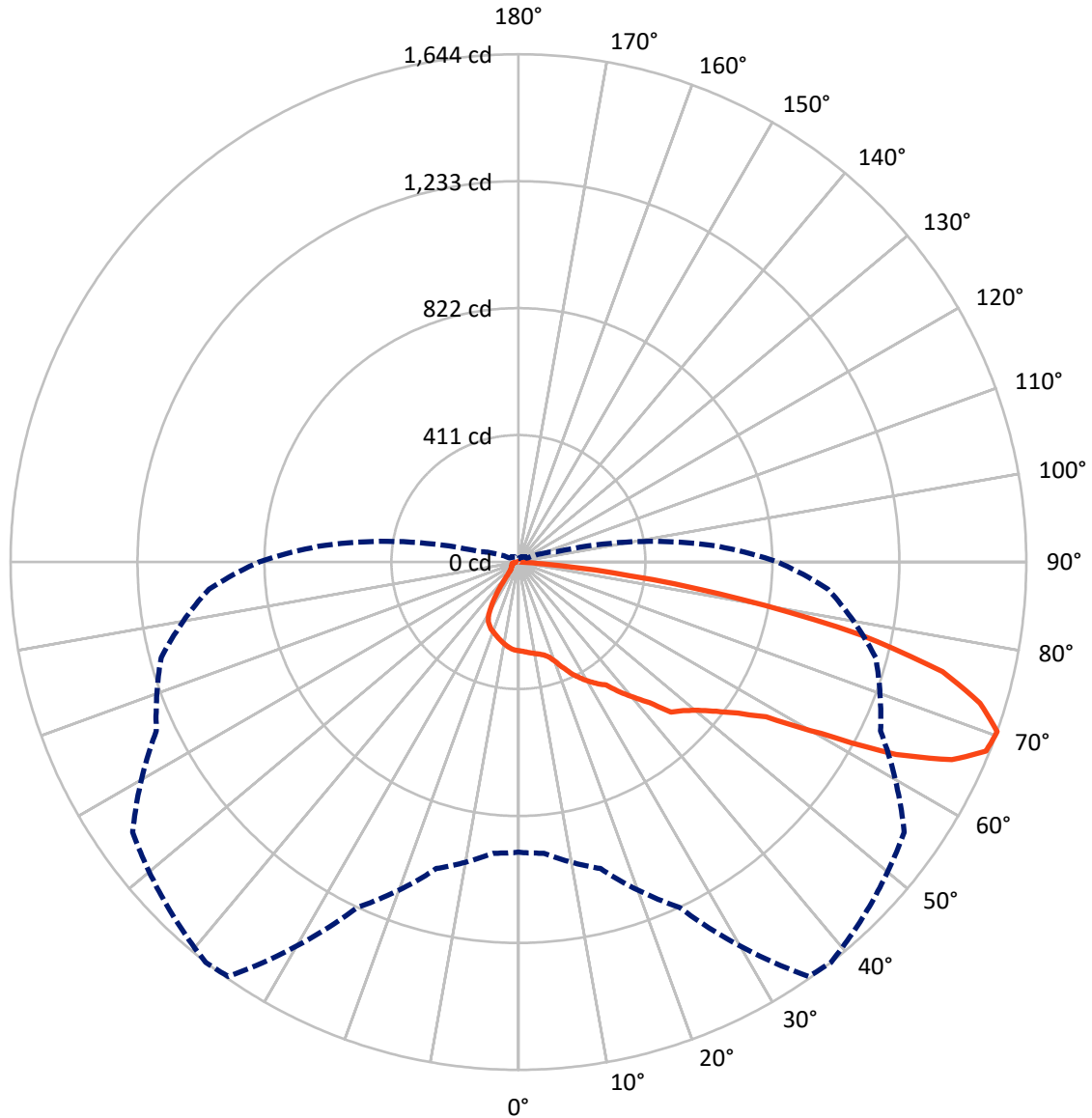
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P507436
CATALOG NUMBER: VERD-S-CA1-20-727-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P507436
 CATALOG NUMBER: VERD-S-CA1-20-727-U-T4-HSS

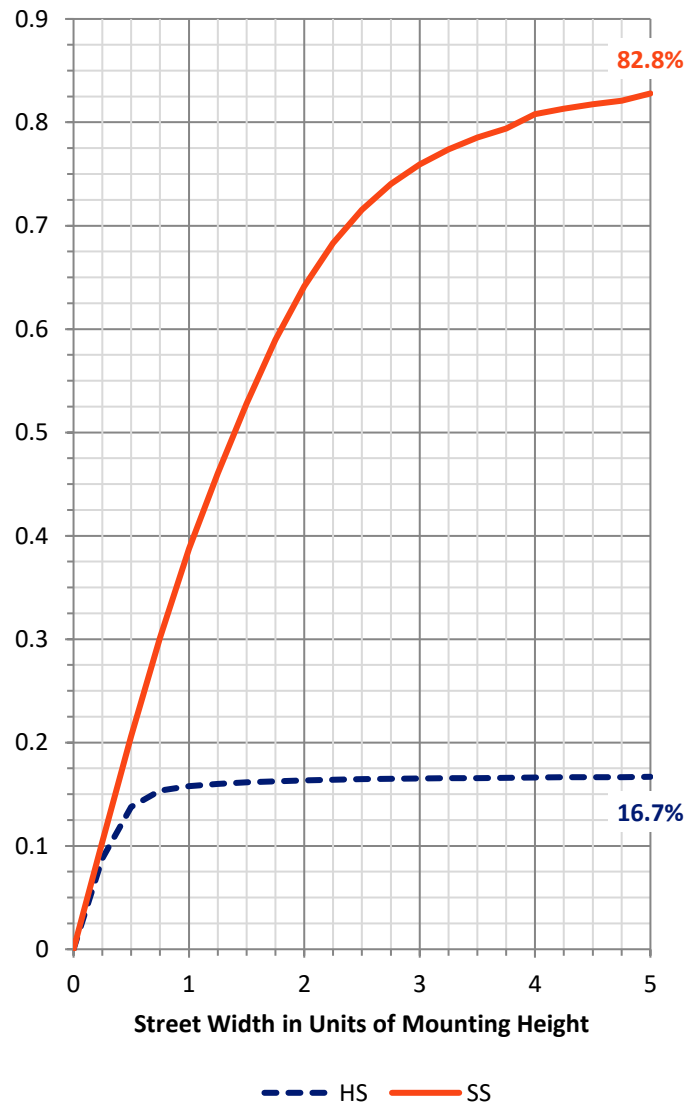
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.1	0.0	453.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	2224.9	0.0	2224.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	2678.0	0.0	2678.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	1.0
10°-20°	83.2	3.1
20°-30°	153.1	5.7
30°-40°	239.7	9.0
40°-50°	364.1	13.6
50°-60°	523.6	19.6
60°-70°	703.4	26.3
70°-80°	521.1	19.5
80°-90°	62.3	2.3
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°	2678.0	100.0
0°-180°	2678.0	100.0



REPORT NUMBER: P507436

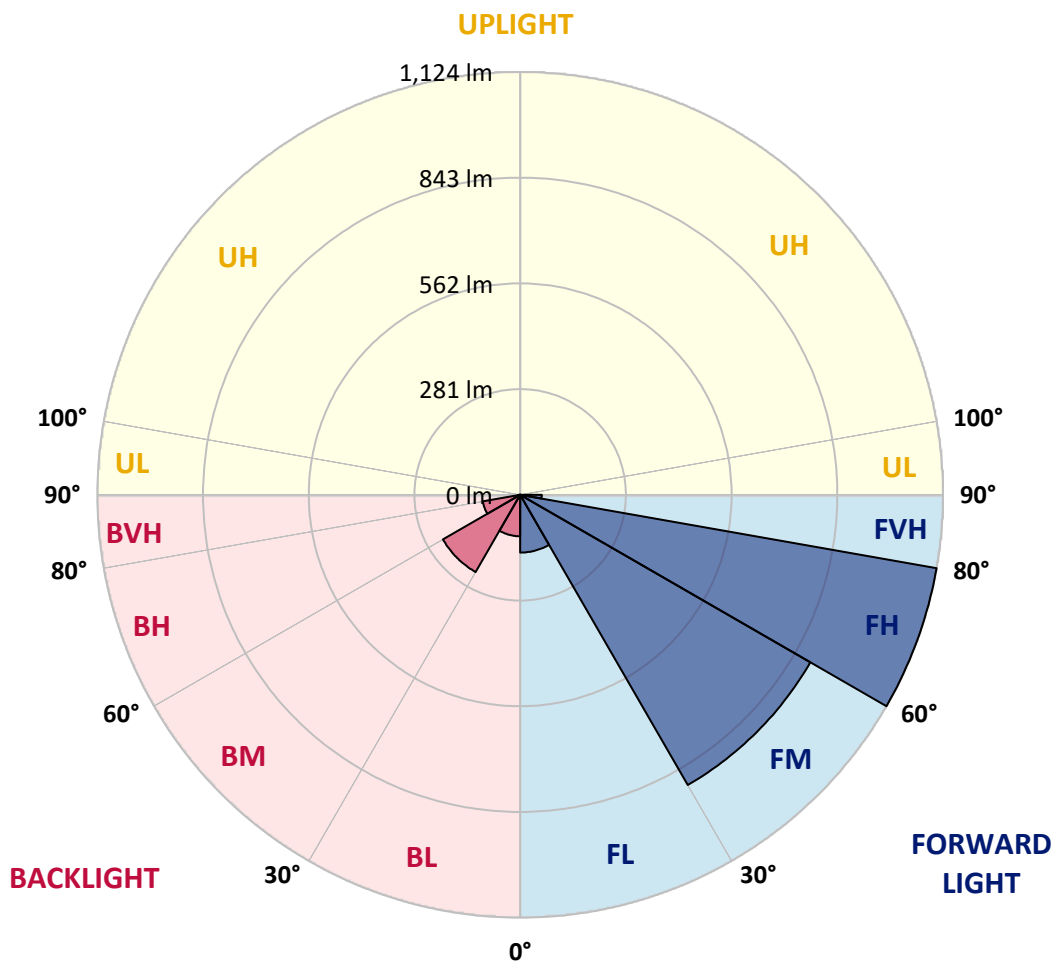
CATALOG NUMBER: VERD-S-CA1-20-727-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.5	5.7			
FM (30°-60°)	890.4	33.2			
FH (60°-80°)	1123.7	42.0			G1/1800
FVH (80°-90°)	57.3	2.1			G1/100
BL (0°-30°)	110.2	4.1	B1/500		
BM (30°-60°)	237.0	8.8	B1/1000		
BH (60°-80°)	100.9	3.8	B0/110		G0/110
BVH (80°-90°)	5.0	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 IV Short





REPORT NUMBER: P507436

CATALOG NUMBER: VERD-S-CA1-20-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0
2.5°	291.3	291.3	291.3	290.4	290.4	289.6	289.6	288.7	288.7	287.9	287.0
5°	295.5	295.5	294.7	293.8	293.0	293.0	293.0	292.1	290.4	290.4	288.7
7.5°	297.2	297.2	297.2	297.2	297.2	297.2	297.2	296.4	295.5	294.7	293.0
10°	298.0	298.0	298.9	298.9	300.6	301.4	301.4	302.3	301.4	299.7	298.0
12.5°	300.6	301.4	301.4	302.3	304.8	305.7	306.5	309.1	309.1	307.4	305.7
15°	305.7	305.7	306.5	308.2	311.6	312.4	315.0	317.5	319.2	317.5	315.8
17.5°	320.9	320.9	320.9	320.9	322.6	323.5	326.8	331.1	332.8	332.8	331.9
20°	351.4	351.4	349.7	346.3	344.6	344.6	343.8	345.5	348.9	351.4	352.2
22.5°	386.1	385.3	384.4	379.3	373.4	371.7	370.0	368.3	370.0	374.3	375.9
25°	413.2	414.1	413.2	406.4	401.3	400.5	398.0	398.8	398.8	399.7	402.2
27.5°	435.2	436.9	433.5	430.1	426.8	424.2	425.9	428.4	432.7	431.0	436.1
30°	459.8	458.9	455.5	451.3	448.8	447.9	447.1	456.4	468.2	473.3	479.2
32.5°	503.8	503.0	496.2	475.0	469.1	469.1	470.8	482.6	501.3	517.4	532.6
35°	544.4	544.4	536.0	521.6	496.2	488.6	492.8	507.2	534.3	566.5	591.0
37.5°	592.7	593.6	584.2	562.2	541.9	534.3	514.0	534.3	567.3	629.1	659.6
40°	648.6	646.9	631.7	608.0	581.7	575.8	558.8	563.1	609.6	702.8	732.4
42.5°	679.9	678.2	668.1	649.4	628.3	621.5	606.3	602.0	666.4	784.1	803.5
45°	710.4	712.1	711.3	701.9	696.9	692.6	684.2	685.0	736.7	864.5	865.4
47.5°	728.2	731.6	718.0	717.2	718.0	718.0	729.9	753.6	803.5	933.1	919.5
50°	780.7	777.3	735.8	737.5	748.5	753.6	775.6	810.3	896.7	992.4	966.1
52.5°	886.5	862.8	810.3	784.9	789.2	801.9	828.1	878.1	989.8	1050.8	1007.6
55°	1005.1	994.9	940.7	875.5	846.7	862.8	890.8	943.3	1063.5	1100.7	1042.3
57.5°	1087.2	1091.4	1093.1	1040.6	939.9	944.9	962.7	1008.5	1129.5	1151.6	1068.6
60°	1166.8	1172.7	1204.9	1197.3	1164.3	1127.0	1057.6	1072.8	1186.3	1188.0	1088.9
62.5°	1230.3	1233.7	1285.3	1309.0	1368.3	1370.9	1258.2	1161.7	1243.8	1214.2	1096.5
65°	1198.1	1207.4	1282.8	1354.8	1523.3	1541.9	1497.9	1275.2	1287.9	1226.1	1091.4
67.5°	1089.7	1105.0	1176.1	1341.2	1619.8	1632.5	1593.5	1480.9	1304.0	1221.8	1063.5
70°	939.0	945.8	1027.1	1232.8	1637.6	1643.5	1595.2	1524.1	1293.0	1197.3	1005.1
72.5°	763.7	771.4	841.6	1060.1	1557.1	1562.2	1549.5	1490.2	1266.7	1151.6	886.5
75°	573.2	585.1	652.0	828.1	1375.1	1418.3	1444.5	1419.1	1193.9	1000.0	674.8
77.5°	378.5	379.3	447.1	625.7	1089.7	1132.9	1137.2	1116.0	847.6	627.4	299.7
80°	162.6	177.8	261.6	420.0	724.0	731.6	740.0	684.2	434.4	193.9	33.0
82.5°	54.2	60.1	110.1	221.8	356.5	364.9	349.7	303.1	121.9	26.2	18.6
85°	22.9	25.4	33.9	61.0	86.4	78.7	73.7	60.1	16.9	15.2	11.9
87.5°	0.8	0.8	0.8	0.8	1.7	0.8	1.7	1.7	2.5	2.5	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P507436
 CATALOG NUMBER: VERD-S-CA1-20-727-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0	287.0
2.5°	287.0	287.0	287.0	286.2	286.2	285.3	285.3	284.5	284.5	284.5	284.5
5°	288.7	288.7	287.0	286.2	284.5	282.8	281.1	279.4	277.7	277.7	277.7
7.5°	292.1	291.3	288.7	285.3	282.0	277.7	275.2	271.8	270.1	268.4	269.3
10°	297.2	295.5	292.1	287.0	280.3	273.5	267.6	262.5	259.9	257.4	256.6
12.5°	304.0	302.3	297.2	289.6	279.4	269.3	259.9	252.3	247.2	244.7	243.9
15°	314.1	311.6	304.8	293.8	279.4	264.2	251.5	240.5	232.0	226.9	226.9
17.5°	330.2	327.7	318.4	303.1	282.8	261.6	242.2	223.5	212.5	206.6	205.8
20°	351.4	348.0	337.0	315.0	288.7	260.8	232.0	208.3	189.7	179.5	178.7
22.5°	375.9	373.4	356.5	327.7	294.7	259.1	224.4	193.1	166.8	148.2	143.9
25°	404.7	400.5	375.1	337.8	296.4	254.9	213.4	177.0	140.6	117.7	113.5
27.5°	438.6	429.3	392.0	345.5	295.5	246.4	200.7	154.1	106.7	89.8	87.2
30°	475.0	458.9	409.0	350.5	290.4	232.9	178.7	115.2	77.1	66.9	64.4
32.5°	516.5	491.1	424.2	351.4	279.4	214.2	141.4	78.7	55.0	49.1	48.3
35°	566.5	531.7	440.3	348.0	263.3	183.7	98.2	53.3	40.6	38.9	38.9
37.5°	631.7	583.4	458.1	337.8	238.8	142.3	65.2	36.4	35.6	36.4	36.4
40°	700.2	642.7	480.1	322.6	207.4	102.5	41.5	33.9	33.9	34.7	34.7
42.5°	765.4	699.4	508.0	302.3	171.9	66.0	33.9	32.2	31.3	32.2	33.0
45°	820.5	752.7	535.1	280.3	131.2	42.3	33.0	30.5	28.8	29.6	29.6
47.5°	869.6	793.4	550.4	254.0	92.3	33.0	33.0	27.9	26.2	26.2	27.1
50°	911.1	825.6	558.8	223.5	58.4	32.2	29.6	26.2	24.6	24.6	23.7
52.5°	945.8	849.3	558.0	189.7	38.1	31.3	27.9	24.6	22.0	22.9	22.9
55°	972.0	867.9	545.3	145.6	32.2	29.6	27.1	22.9	21.2	22.9	22.9
57.5°	992.4	876.4	521.6	101.6	31.3	27.1	25.4	21.2	19.5	20.3	20.3
60°	1002.5	872.1	484.3	63.5	30.5	26.2	23.7	19.5	17.8	16.9	17.8
62.5°	999.1	856.9	431.0	42.3	28.8	24.6	22.0	18.6	16.1	14.4	14.4
65°	978.8	823.0	367.5	35.6	27.9	24.6	21.2	17.8	14.4	13.5	13.5
67.5°	933.1	752.7	272.6	33.0	27.9	23.7	20.3	16.9	14.4	12.7	12.7
70°	839.1	626.6	131.2	30.5	27.9	24.6	20.3	16.1	13.5	11.9	11.9
72.5°	679.1	442.8	33.9	26.2	27.1	24.6	21.2	16.1	12.7	11.0	11.0
75°	442.8	212.5	28.8	21.2	24.6	22.9	20.3	16.1	12.7	10.2	10.2
77.5°	143.9	29.6	26.2	18.6	22.0	22.0	20.3	16.1	12.7	9.3	9.3
80°	22.9	21.2	22.9	14.4	16.1	18.6	16.1	15.2	11.9	8.5	8.5
82.5°	16.1	19.5	16.9	11.9	14.4	15.2	12.7	10.2	8.5	7.6	7.6
85°	11.9	12.7	10.2	9.3	11.0	12.7	10.2	7.6	6.8	6.8	6.8
87.5°	4.2	5.1	5.1	6.8	8.5	9.3	5.9	4.2	5.1	5.1	5.1
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)