

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: P509256

Luminaire Tested: **VERD-CA2-60-727-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-727-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 850mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7080 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

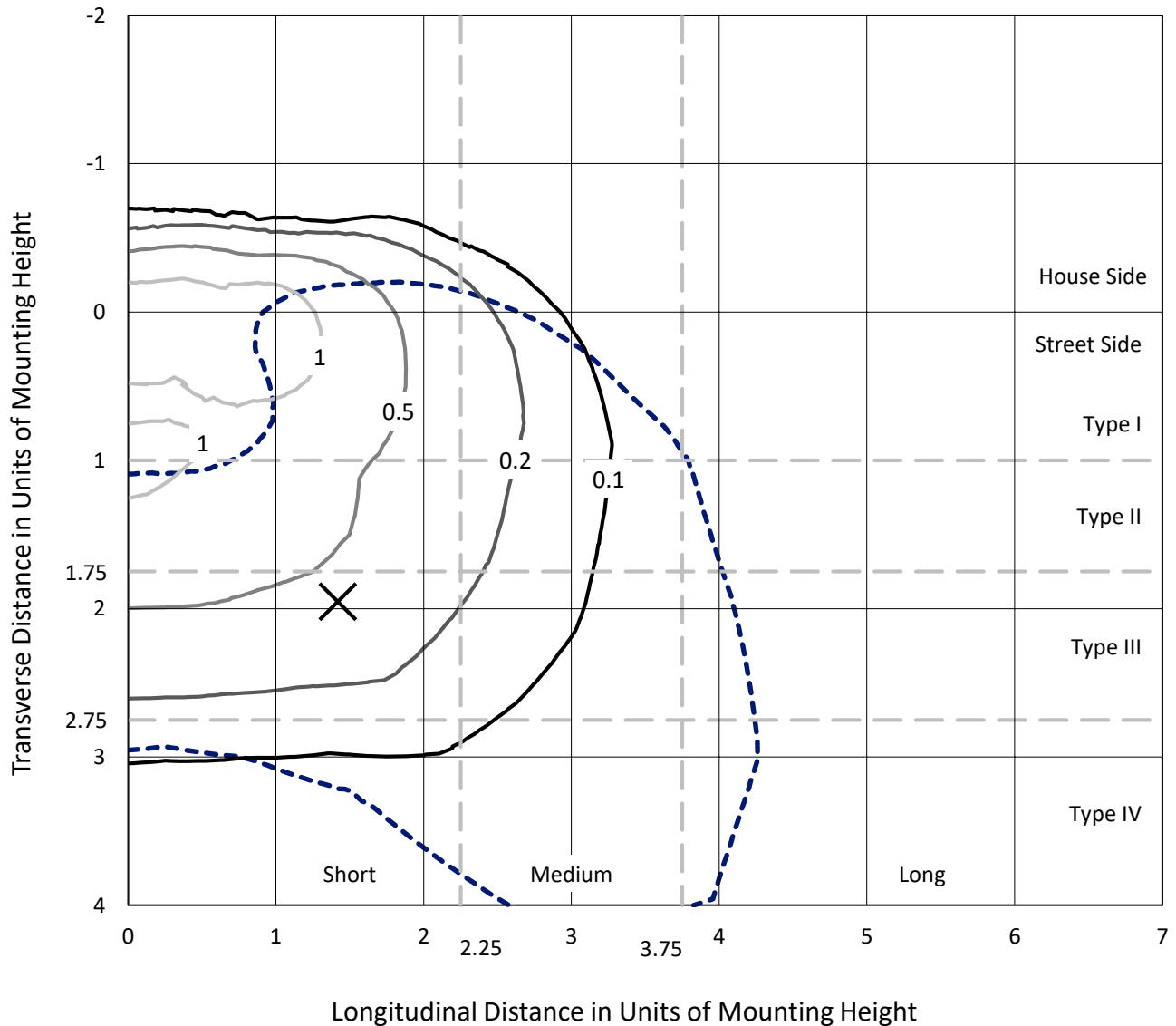
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509256
 CATALOG NUMBER: VERD-CA2-60-727-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

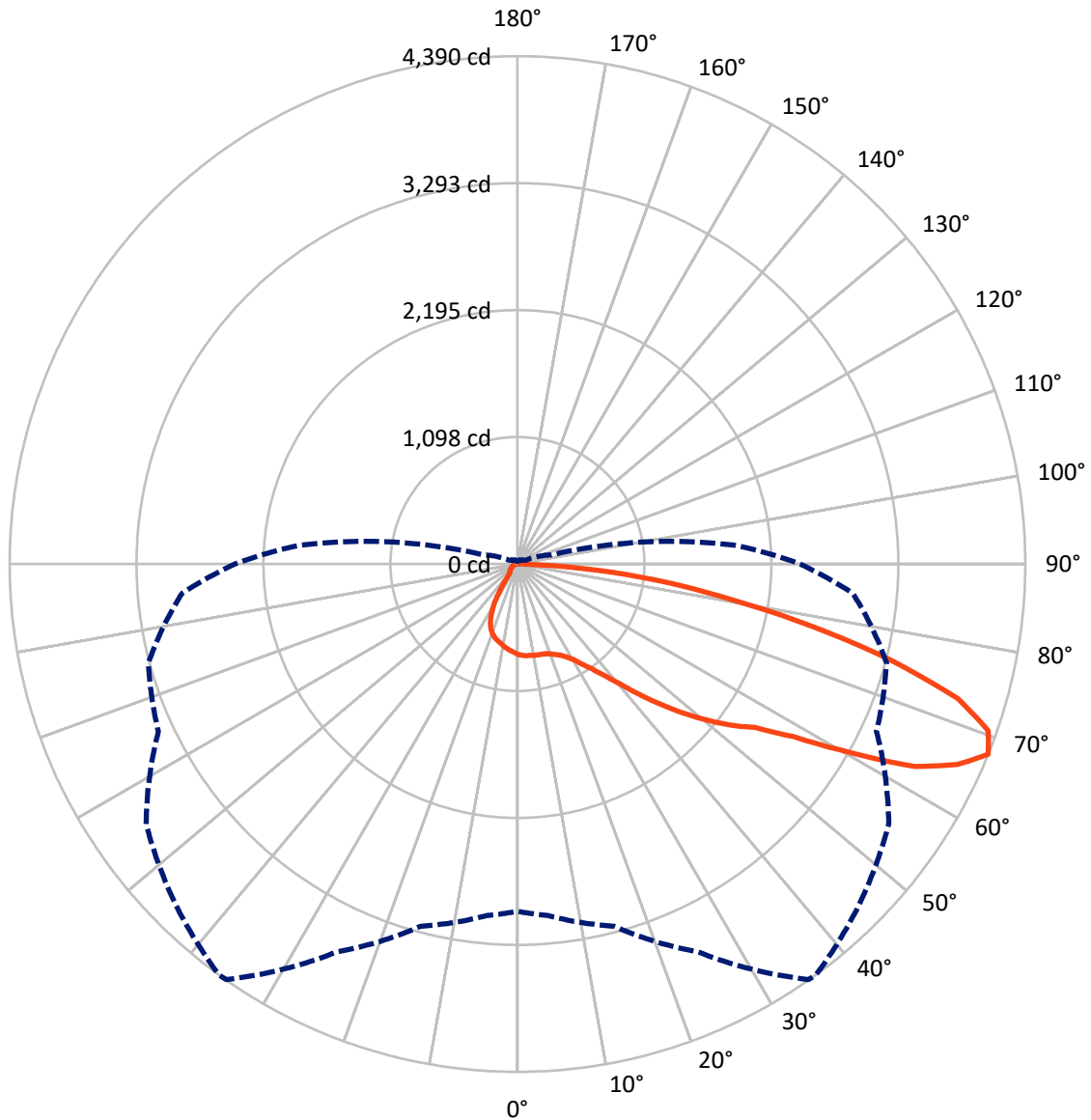
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P509256
CATALOG NUMBER: VERD-CA2-60-727-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P509256

CATALOG NUMBER: VERD-CA2-60-727-U-T4-HSS

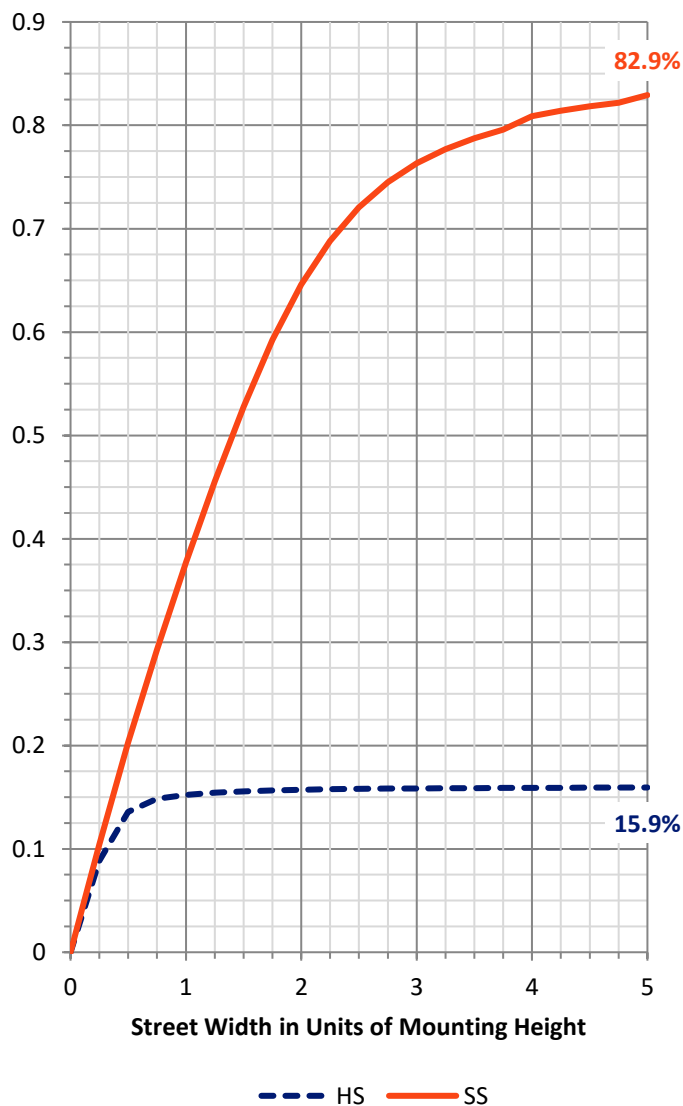
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1141.8	0.0	1141.8
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	5938.2	0.0	5938.2
	% Fixture	83.9	0.0	83.9
Total	Lumens	7080.0	0.0	7080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.0
10°-20°	218.8	3.1
20°-30°	361.8	5.1
30°-40°	573.9	8.1
40°-50°	990.6	14.0
50°-60°	1468.3	20.7
60°-70°	1898.3	26.8
70°-80°	1281.4	18.1
80°-90°	213.0	3.0
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°	7080.0	100.0
0°-180°	7080.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509256

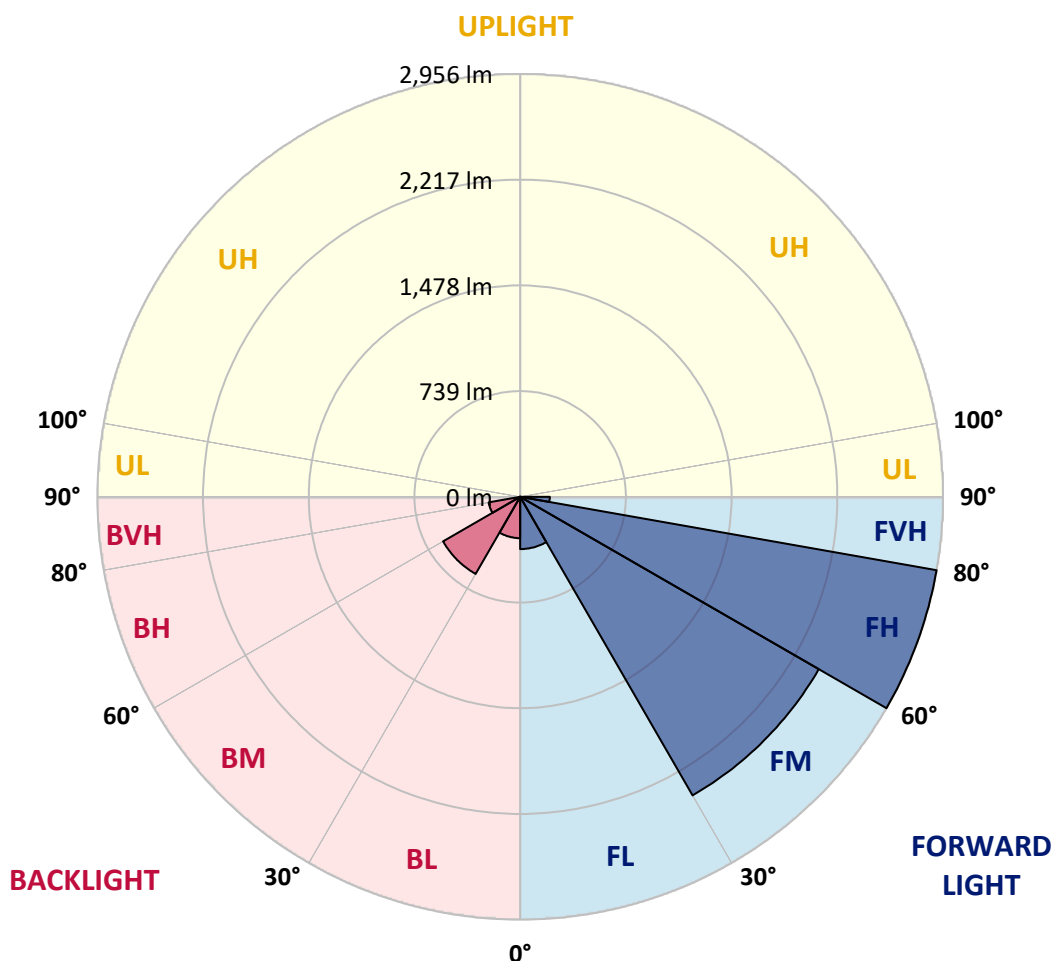
CATALOG NUMBER: VERD-CA2-60-727-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	365.5	5.2			
FM	(30°-60°)	2409.9	34.0			
FH	(60°-80°)	2955.9	41.8			G2/5000
FVH	(80°-90°)	206.9	2.9			G2/225
BL	(0°-30°)	289.0	4.1	B1/500		
BM	(30°-60°)	622.9	8.8	B1/1000		
BH	(60°-80°)	223.9	3.2	B1/500		G1/500
BVH	(80°-90°)	6.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P509256

CATALOG NUMBER: VERD-CA2-60-727-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	785.9	793.5	792.6	791.8	791.8	790.9	785.9	780.8	783.3	782.5	781.6
5°	789.2	796.9	796.0	795.2	795.2	796.0	788.4	782.5	784.2	785.9	785.0
7.5°	790.9	797.7	796.0	795.2	794.3	796.9	790.9	791.8	793.5	793.5	793.5
10°	793.5	798.6	798.6	799.4	800.3	802.8	800.3	802.8	809.6	807.9	812.1
12.5°	786.7	792.6	795.2	799.4	803.6	805.3	807.9	814.7	823.1	827.4	831.6
15°	784.2	790.1	794.3	799.4	806.2	807.9	814.7	826.5	836.7	845.1	854.5
17.5°	792.6	799.4	805.3	808.7	812.1	814.7	821.4	836.7	854.5	869.7	883.2
20°	808.7	815.5	822.3	825.7	828.2	829.9	835.0	849.4	872.2	895.9	915.4
22.5°	827.4	834.1	841.7	844.3	850.2	850.2	851.1	865.5	893.4	925.6	949.3
25°	847.7	851.9	858.7	862.9	871.4	873.1	875.6	888.3	923.0	959.5	996.7
27.5°	871.4	879.9	886.6	891.7	908.6	909.5	907.8	923.9	957.8	1002.6	1055.2
30°	914.6	923.9	930.7	939.1	961.2	960.3	971.3	988.3	1007.7	1056.8	1127.1
32.5°	983.2	984.0	987.4	998.4	1029.7	1033.1	1054.3	1084.8	1123.7	1155.1	1229.6
35°	1108.5	1104.3	1094.1	1092.4	1113.6	1115.3	1156.8	1221.1	1305.8	1410.0	1525.1
37.5°	1255.0	1266.0	1254.2	1217.7	1221.1	1222.0	1271.1	1353.2	1510.7	1771.6	1880.8
40°	1512.4	1518.4	1444.7	1387.1	1366.8	1357.5	1382.9	1507.4	1708.9	2048.5	2125.5
42.5°	1739.4	1739.4	1670.8	1581.9	1530.2	1537.0	1529.4	1653.0	1912.1	2289.0	2316.9
45°	1966.3	1958.7	1896.1	1821.5	1730.9	1725.0	1705.5	1800.4	2099.3	2461.7	2462.6
47.5°	2178.0	2195.8	2101.8	2019.7	1927.4	1923.2	1888.4	1962.1	2278.8	2613.3	2590.5
50°	2400.8	2425.3	2307.6	2215.3	2115.4	2121.3	2092.5	2144.2	2457.5	2754.7	2713.2
52.5°	2717.5	2671.8	2531.2	2403.3	2300.0	2316.9	2287.3	2317.8	2643.0	2867.4	2781.0
55°	3057.1	2975.8	2858.9	2644.7	2494.8	2493.1	2471.1	2507.5	2830.1	2996.1	2858.1
57.5°	3239.1	3263.7	3236.6	3063.0	2820.8	2816.6	2684.5	2688.7	3002.0	3106.2	2965.6
60°	3446.6	3477.1	3536.4	3428.0	3306.9	3310.3	2980.8	2882.6	3183.2	3194.2	2974.1
62.5°	3556.7	3560.1	3696.4	3734.5	3832.8	3854.8	3605.0	3119.7	3303.5	3262.0	2988.5
65°	3361.9	3367.8	3630.4	3822.6	4150.3	4180.0	4072.4	3578.7	3393.3	3297.6	2974.9
67.5°	3002.0	3050.3	3241.7	3700.7	4385.7	4390.0	4173.2	3918.3	3424.6	3302.6	2909.7
70°	2515.9	2499.0	2741.2	3292.5	4349.3	4318.0	4129.1	3957.2	3401.7	3233.2	2612.5
72.5°	1865.6	1840.2	2090.0	2647.2	3923.4	3982.6	3931.8	3729.4	3315.3	2974.1	2120.5
75°	1277.0	1306.7	1531.1	1996.0	3258.6	3348.4	3572.8	3553.3	2949.5	2465.1	1451.5
77.5°	873.9	886.6	1078.9	1485.3	2582.8	2617.6	2989.3	2870.8	2168.7	1515.0	484.4
80°	569.1	564.8	737.6	1057.7	1893.5	1889.3	2134.9	1816.5	1168.6	516.6	66.9
82.5°	317.6	336.2	442.0	695.2	1279.6	1293.1	1332.9	993.3	449.7	60.1	42.3
85°	178.7	186.3	254.0	393.8	670.7	704.6	594.5	365.0	80.4	33.0	24.6
87.5°	42.3	40.6	81.3	150.7	111.8	121.1	57.6	16.9	8.5	5.9	5.9
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: P509256
 CATALOG NUMBER: VERD-CA2-60-727-U-T4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5	782.5
2.5°	781.6	779.9	778.2	774.9	772.3	764.7	765.5	770.6	765.5	774.0	768.9
5°	783.3	780.8	776.5	766.4	758.8	752.8	751.1	750.3	743.5	751.1	747.8
7.5°	790.1	787.6	778.2	767.2	756.2	738.4	735.9	732.5	719.8	724.9	720.7
10°	806.2	802.8	786.7	771.5	754.5	730.8	717.3	707.1	692.7	694.4	690.2
12.5°	826.5	823.1	804.5	779.1	755.4	722.3	698.6	679.2	658.0	658.0	653.8
15°	850.2	846.8	825.7	796.0	758.8	715.6	680.0	648.7	614.8	610.6	605.5
17.5°	882.4	877.3	852.8	814.7	768.1	709.6	661.4	614.8	563.1	547.1	538.6
20°	915.4	909.5	888.3	840.9	780.8	703.7	634.3	570.8	503.9	470.8	464.9
22.5°	957.8	956.1	929.8	863.8	785.0	691.0	600.4	521.6	431.9	386.2	376.8
25°	1007.7	1005.2	964.5	881.6	779.9	665.6	552.1	451.4	350.6	304.9	294.7
27.5°	1067.0	1060.2	994.2	885.8	765.5	625.8	490.3	360.7	259.1	220.2	212.6
30°	1129.7	1119.5	1025.5	886.6	736.7	576.7	409.0	265.1	183.8	155.8	155.8
32.5°	1234.7	1200.0	1056.0	874.8	695.2	506.4	311.6	178.7	128.7	117.7	117.7
35°	1459.9	1376.9	1104.3	859.5	641.1	419.2	211.7	121.1	107.5	107.5	106.7
37.5°	1797.8	1643.7	1186.4	834.1	567.4	311.6	139.7	99.9	102.5	102.5	102.5
40°	2013.8	1852.0	1298.2	794.3	482.7	211.7	99.9	94.8	96.5	98.2	98.2
42.5°	2215.3	2033.2	1410.0	739.3	389.5	135.5	93.2	88.9	89.8	89.8	90.6
45°	2343.2	2167.9	1493.0	680.9	287.1	96.5	91.5	83.8	81.3	81.3	83.0
47.5°	2461.7	2256.0	1529.4	603.8	185.5	90.6	87.2	77.9	74.5	73.7	73.7
50°	2580.3	2346.6	1549.7	512.3	116.0	87.2	80.4	71.1	67.7	66.9	66.9
52.5°	2632.8	2375.4	1504.0	409.0	86.4	83.8	75.4	65.2	60.1	60.1	60.1
55°	2687.8	2428.7	1426.9	293.0	82.1	77.9	69.4	58.4	54.2	55.9	55.9
57.5°	2748.8	2390.6	1344.8	190.5	81.3	70.3	61.8	52.5	49.1	50.8	51.7
60°	2730.2	2399.9	1227.1	127.9	77.9	64.4	55.9	46.6	44.0	44.0	44.0
62.5°	2730.2	2327.9	1034.0	97.4	71.1	59.3	51.7	43.2	39.0	37.3	35.6
65°	2658.2	2157.7	755.4	84.7	63.5	55.0	46.6	38.1	33.0	30.5	29.6
67.5°	2440.6	1875.7	304.0	77.1	58.4	50.8	43.2	34.7	28.8	25.4	24.6
70°	2074.7	1384.6	87.2	68.6	59.3	47.4	40.6	30.5	25.4	21.2	20.3
72.5°	1537.8	731.7	71.1	54.2	52.5	40.6	38.1	28.8	22.0	17.8	16.9
75°	776.5	99.9	61.0	39.0	40.6	42.3	36.4	25.4	20.3	14.4	13.5
77.5°	80.4	59.3	53.4	26.3	28.8	29.6	31.3	23.7	17.8	11.9	11.0
80°	50.0	44.9	52.5	22.9	16.9	20.3	21.2	18.6	14.4	9.3	9.3
82.5°	35.6	38.1	39.0	14.4	12.7	11.9	11.0	11.0	12.7	8.5	8.5
85°	24.6	25.4	16.1	9.3	8.5	7.6	6.8	6.8	5.9	6.8	5.9
87.5°	5.9	5.1	5.1	5.1	4.2	4.2	3.4	3.4	3.4	3.4	4.2
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)