

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: P509248

Luminaire Tested: **VERD-CA2-60-722-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509248
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-CA2-60-722-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 850mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6814 lumens
Efficiency: N/A
Efficacy: 107.5 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

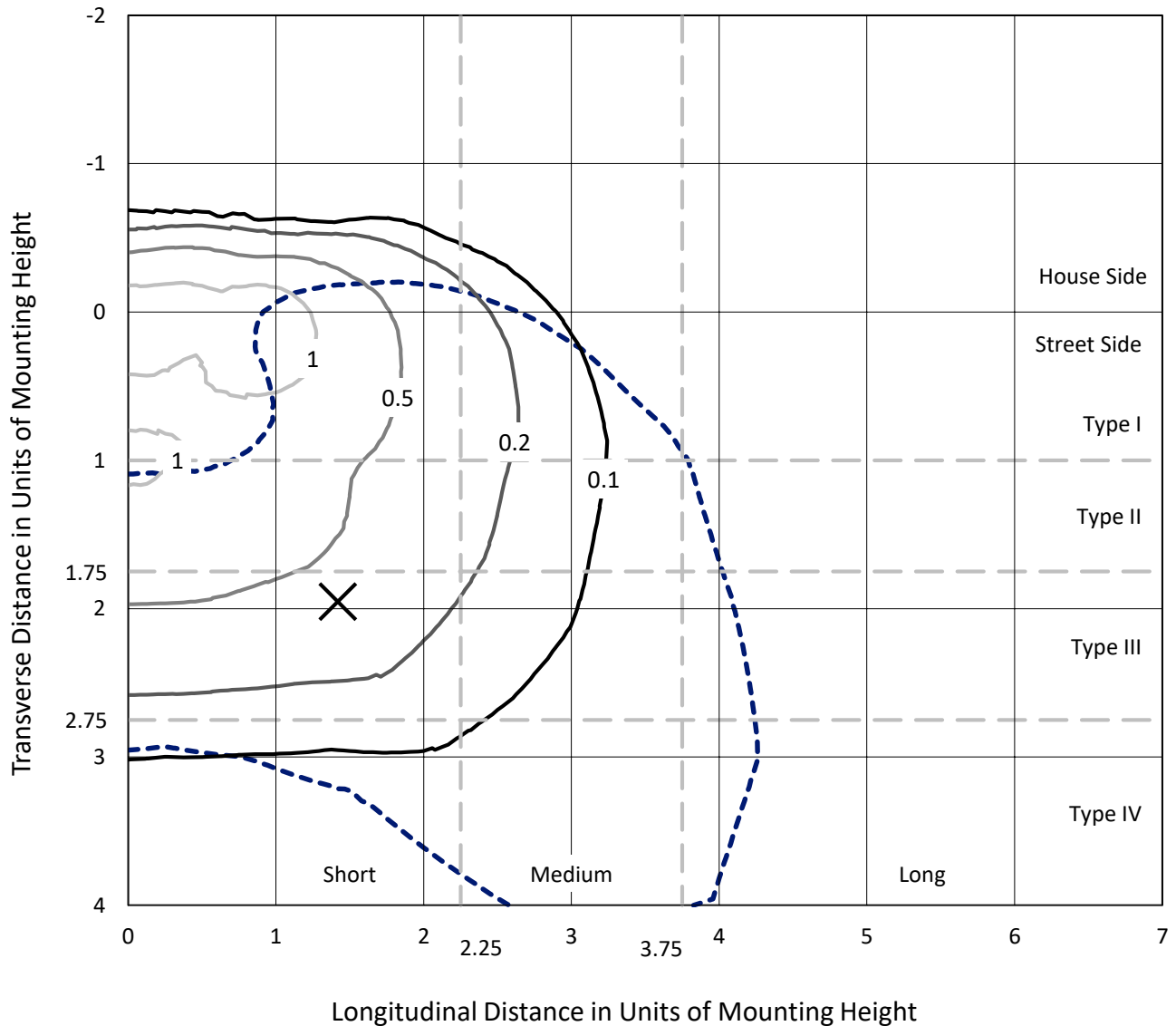
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

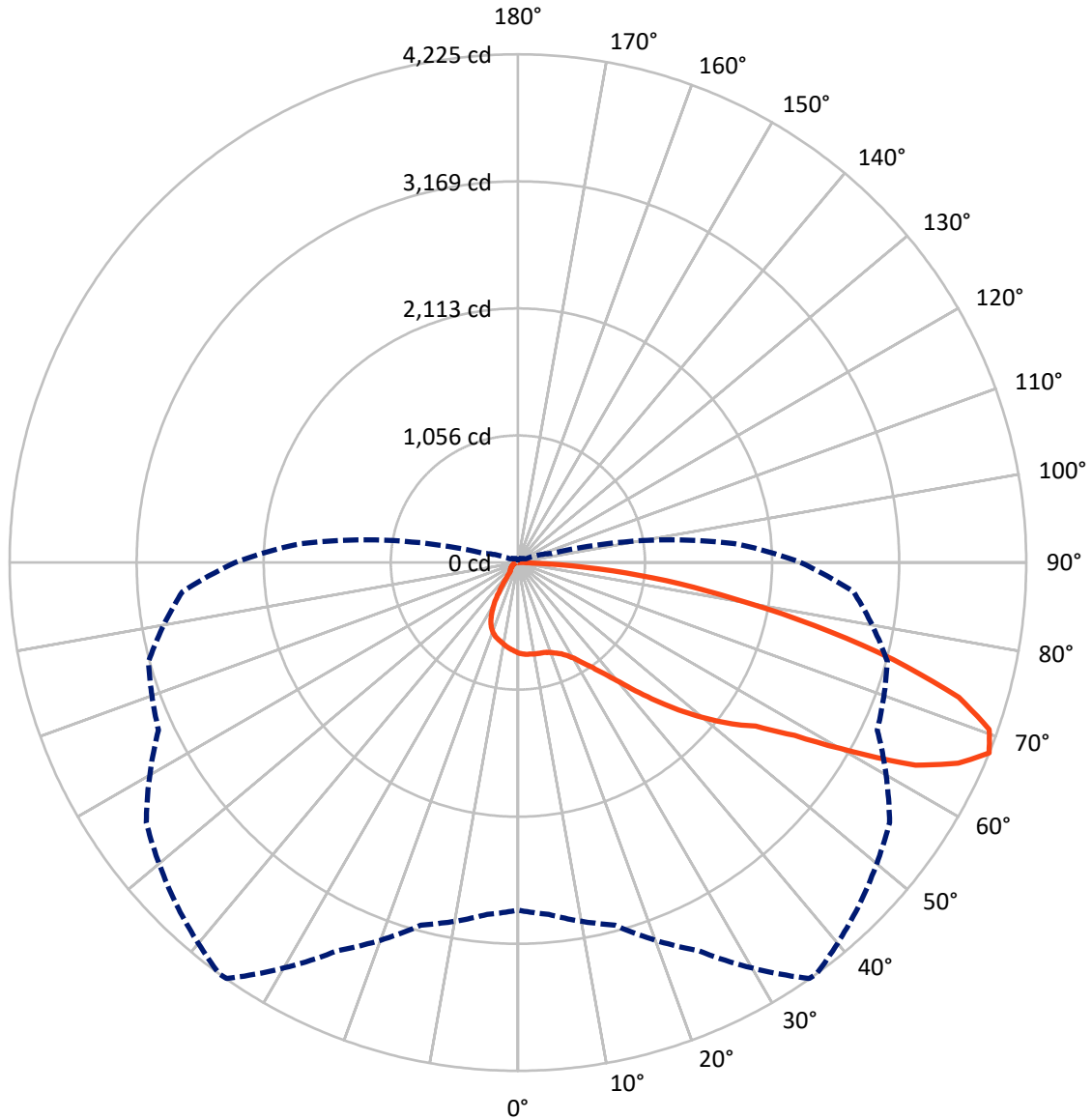
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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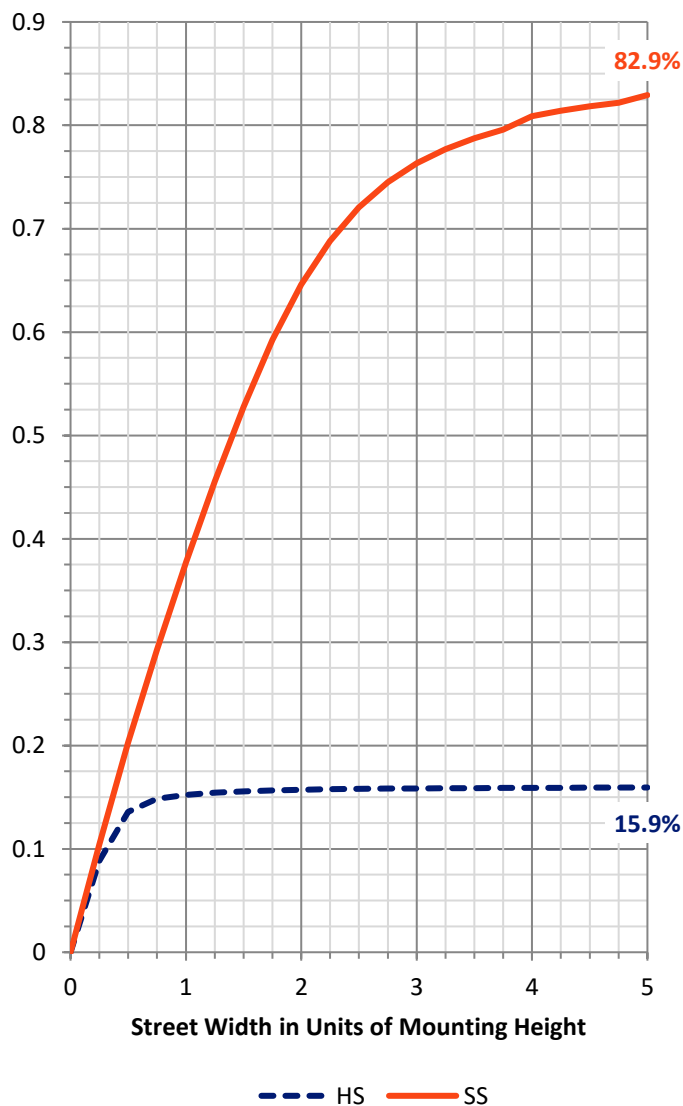
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.9	0.0	1098.9
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	5715.1	0.0	5715.1
	% Fixture	83.9	0.0	83.9
Total	Lumens	6814.0	0.0	6814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.0
10°-20°	210.6	3.1
20°-30°	348.2	5.1
30°-40°	552.3	8.1
40°-50°	953.4	14.0
50°-60°	1413.1	20.7
60°-70°	1827.0	26.8
70°-80°	1233.3	18.1
80°-90°	205.0	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°	6814.0	100.0
0°-180°	6814.0	100.0

Coefficient of Utilization



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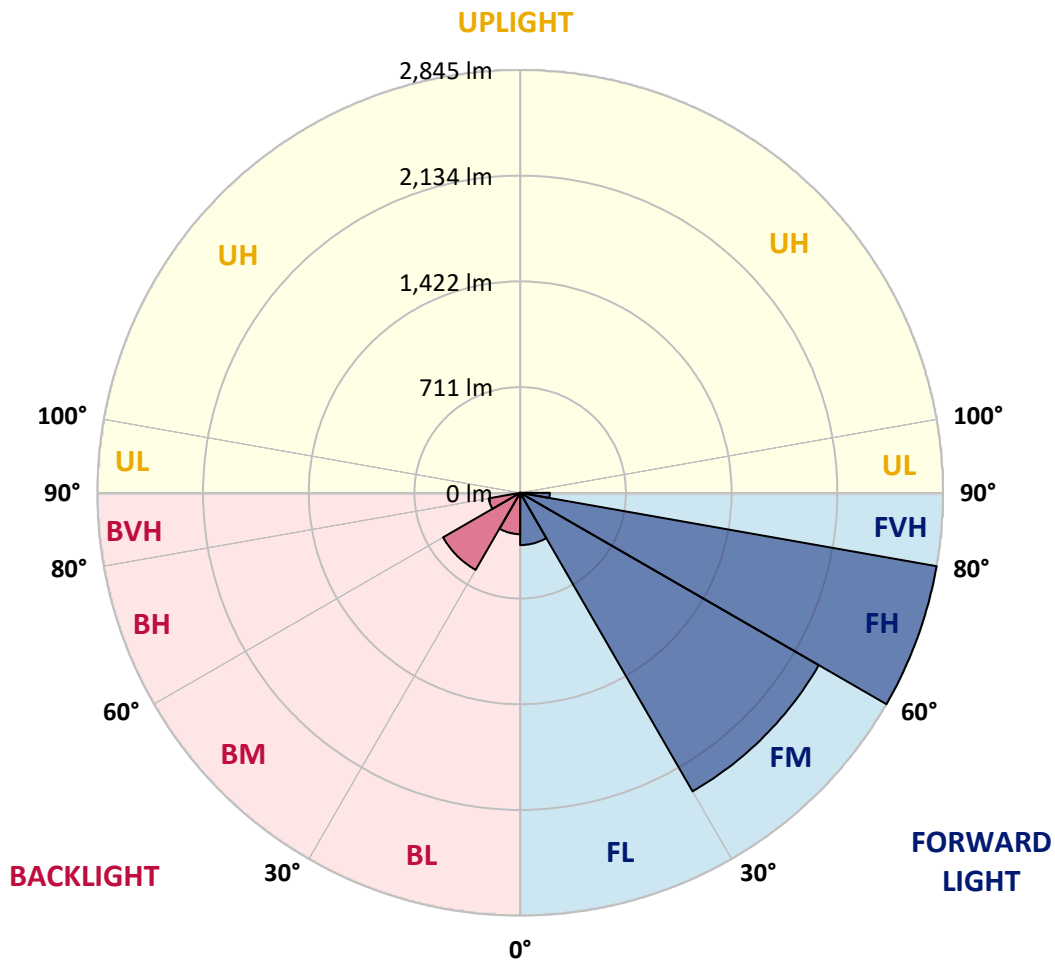
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.7	5.2			
FM (30°-60°)	2319.4	34.0			
FH (60°-80°)	2844.9	41.8			G2/5000
FVH (80°-90°)	199.2	2.9			G2/225
BL (0°-30°)	278.1	4.1	B1/500		
BM (30°-60°)	599.5	8.8	B1/1000		
BH (60°-80°)	215.5	3.2	B1/500		G1/500
BVH (80°-90°)	5.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1
2.5°	756.3	763.7	762.9	762.0	762.0	761.2	756.3	751.4	753.9	753.1	752.3
5°	759.6	766.9	766.1	765.3	765.3	766.1	758.8	753.1	754.7	756.3	755.5
7.5°	761.2	767.7	766.1	765.3	764.5	766.9	761.2	762.0	763.7	763.7	763.7
10°	763.7	768.6	768.6	769.4	770.2	772.6	770.2	772.6	779.2	777.5	781.6
12.5°	757.1	762.9	765.3	769.4	773.4	775.1	777.5	784.0	792.2	796.3	800.3
15°	754.7	760.4	764.5	769.4	775.9	777.5	784.0	795.5	805.2	813.4	822.3
17.5°	762.9	769.4	775.1	778.3	781.6	784.0	790.6	805.2	822.3	837.0	850.1
20°	778.3	784.9	791.4	794.6	797.1	798.7	803.6	817.5	839.5	862.3	881.0
22.5°	796.3	802.8	810.1	812.6	818.3	818.3	819.1	832.9	859.8	890.8	913.6
25°	815.8	819.9	826.4	830.5	838.7	840.3	842.7	855.0	888.4	923.4	959.3
27.5°	838.7	846.8	853.3	858.2	874.5	875.3	873.7	889.2	921.8	965.0	1015.5
30°	880.2	889.2	895.7	903.9	925.0	924.2	934.8	951.1	969.9	1017.1	1084.8
32.5°	946.2	947.0	950.3	960.9	991.1	994.3	1014.7	1044.0	1081.5	1111.7	1183.4
35°	1066.9	1062.8	1053.0	1051.4	1071.7	1073.4	1113.3	1175.3	1256.8	1357.0	1467.8
37.5°	1207.9	1218.4	1207.0	1172.0	1175.3	1176.1	1223.3	1302.4	1454.0	1705.0	1810.1
40°	1455.6	1461.3	1390.4	1335.0	1315.4	1306.5	1330.9	1450.7	1644.7	1971.5	2045.7
42.5°	1674.0	1674.0	1608.0	1522.4	1472.7	1479.3	1471.9	1590.9	1840.3	2203.0	2229.9
45°	1892.5	1885.1	1824.8	1753.1	1665.9	1660.2	1641.4	1732.7	2020.4	2369.2	2370.1
47.5°	2096.2	2113.3	2022.9	1943.8	1855.0	1850.9	1817.5	1888.4	2193.2	2515.1	2493.1
50°	2310.6	2334.2	2220.9	2132.1	2035.9	2041.6	2013.9	2063.6	2365.2	2651.2	2611.3
52.5°	2615.4	2571.4	2436.1	2313.0	2213.6	2229.9	2201.4	2230.7	2543.7	2759.6	2676.5
55°	2942.2	2864.0	2751.5	2545.3	2401.0	2399.4	2378.2	2413.3	2723.8	2883.5	2750.7
57.5°	3117.4	3141.1	3115.0	2947.9	2714.8	2710.7	2583.6	2587.7	2889.2	2989.5	2854.2
60°	3317.1	3346.5	3403.5	3299.2	3182.6	3185.9	2868.9	2774.3	3063.6	3074.2	2862.3
62.5°	3423.1	3426.3	3557.5	3594.2	3688.8	3709.9	3469.5	3002.5	3179.4	3139.4	2876.2
65°	3235.6	3241.3	3494.0	3679.0	3994.4	4022.9	3919.4	3444.3	3265.8	3173.7	2863.1
67.5°	2889.2	2935.7	3119.9	3561.6	4221.0	4225.0	4016.4	3771.1	3295.9	3178.6	2800.4
70°	2421.4	2405.1	2638.2	3168.8	4185.9	4155.8	3974.0	3808.6	3273.9	3111.7	2514.3
72.5°	1795.5	1771.0	2011.5	2547.7	3776.0	3833.0	3784.1	3589.3	3190.8	2862.3	2040.8
75°	1229.0	1257.6	1473.5	1921.0	3136.2	3222.6	3438.5	3419.8	2838.7	2372.5	1396.9
77.5°	841.1	853.3	1038.3	1429.5	2485.8	2519.2	2877.0	2762.9	2087.3	1458.1	466.2
80°	547.7	543.6	709.9	1018.0	1822.4	1818.3	2054.7	1748.2	1124.7	497.2	64.4
82.5°	305.6	323.6	425.4	669.1	1231.5	1244.5	1282.8	956.0	432.8	57.9	40.8
85°	172.0	179.3	244.5	379.0	645.5	678.1	572.1	351.3	77.4	31.8	23.6
87.5°	40.8	39.1	78.2	145.1	107.6	116.5	55.4	16.3	8.2	5.7	5.7
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°	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1	753.1
2.5°	752.3	750.6	749.0	745.7	743.3	736.0	736.8	741.7	736.8	744.9	740.0
5°	753.9	751.4	747.4	737.6	730.3	724.5	722.9	722.1	715.6	722.9	719.7
7.5°	760.4	758.0	749.0	738.4	727.8	710.7	708.2	705.0	692.8	697.7	693.6
10°	775.9	772.6	757.1	742.5	726.2	703.4	690.3	680.5	666.7	668.3	664.2
12.5°	795.5	792.2	774.3	749.8	727.0	695.2	672.4	653.6	633.3	633.3	629.2
15°	818.3	815.0	794.6	766.1	730.3	688.7	654.5	624.3	591.7	587.6	582.7
17.5°	849.2	844.4	820.7	784.0	739.2	683.0	636.5	591.7	542.0	526.5	518.3
20°	881.0	875.3	855.0	809.3	751.4	677.3	610.4	549.3	484.9	453.1	447.4
22.5°	921.8	920.2	894.9	831.3	755.5	665.1	577.8	502.0	415.7	371.6	362.7
25°	969.9	967.4	928.3	848.4	750.6	640.6	531.4	434.4	337.4	293.4	283.6
27.5°	1026.9	1020.4	956.8	852.5	736.8	602.3	471.9	347.2	249.4	211.9	204.6
30°	1087.2	1077.4	987.0	853.3	709.1	555.0	393.7	255.1	176.9	150.0	150.0
32.5°	1188.3	1154.9	1016.3	841.9	669.1	487.4	299.9	172.0	123.9	113.3	113.3
35°	1405.1	1325.2	1062.8	827.2	617.0	403.4	203.8	116.5	103.5	103.5	102.7
37.5°	1730.3	1581.9	1141.8	802.8	546.1	299.9	134.5	96.2	98.6	98.6	98.6
40°	1938.1	1782.4	1249.4	764.5	464.6	203.8	96.2	91.3	92.9	94.5	94.5
42.5°	2132.1	1956.9	1357.0	711.5	374.9	130.4	89.7	85.6	86.4	86.4	87.2
45°	2255.1	2086.4	1436.9	655.3	276.3	92.9	88.0	80.7	78.2	78.2	79.9
47.5°	2369.2	2171.2	1471.9	581.1	178.5	87.2	83.9	75.0	71.7	70.9	70.9
50°	2483.4	2258.4	1491.5	493.1	111.7	83.9	77.4	68.5	65.2	64.4	64.4
52.5°	2533.9	2286.1	1447.5	393.7	83.1	80.7	72.5	62.8	57.9	57.9	57.9
55°	2586.9	2337.5	1373.3	282.0	79.1	75.0	66.8	56.2	52.2	53.8	53.8
57.5°	2645.5	2300.8	1294.2	183.4	78.2	67.6	59.5	50.5	47.3	48.9	49.7
60°	2627.6	2309.8	1181.0	123.1	75.0	61.9	53.8	44.8	42.4	42.4	42.4
62.5°	2627.6	2240.5	995.1	93.7	68.5	57.1	49.7	41.6	37.5	35.9	34.2
65°	2558.3	2076.7	727.0	81.5	61.1	53.0	44.8	36.7	31.8	29.3	28.5
67.5°	2348.9	1805.3	292.6	74.2	56.2	48.9	41.6	33.4	27.7	24.5	23.6
70°	1996.8	1332.5	83.9	66.0	57.1	45.6	39.1	29.3	24.5	20.4	19.6
72.5°	1480.1	704.2	68.5	52.2	50.5	39.1	36.7	27.7	21.2	17.1	16.3
75°	747.4	96.2	58.7	37.5	39.1	40.8	35.0	24.5	19.6	13.9	13.0
77.5°	77.4	57.1	51.3	25.3	27.7	28.5	30.2	22.8	17.1	11.4	10.6
80°	48.1	43.2	50.5	22.0	16.3	19.6	20.4	17.9	13.9	9.0	9.0
82.5°	34.2	36.7	37.5	13.9	12.2	11.4	10.6	10.6	12.2	8.2	8.2
85°	23.6	24.5	15.5	9.0	8.2	7.3	6.5	6.5	5.7	6.5	5.7
87.5°	5.7	4.9	4.9	4.9	4.1	4.1	3.3	3.3	3.3	3.3	4.1
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)