

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: P507716

Luminaire Tested: **VERD-S-CA1-80-722-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507716
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-CA1-80-722-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1500mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7903 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

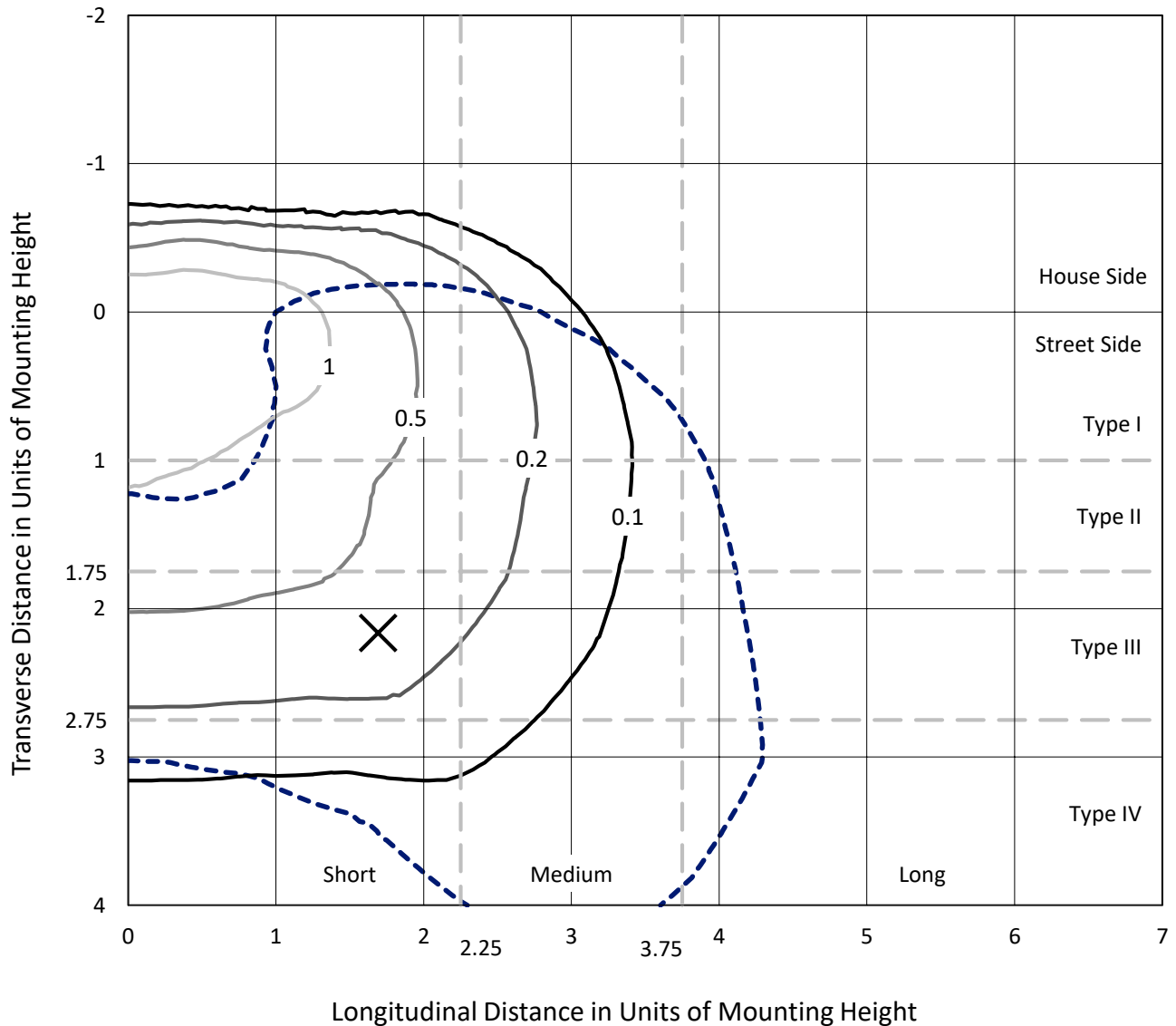
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

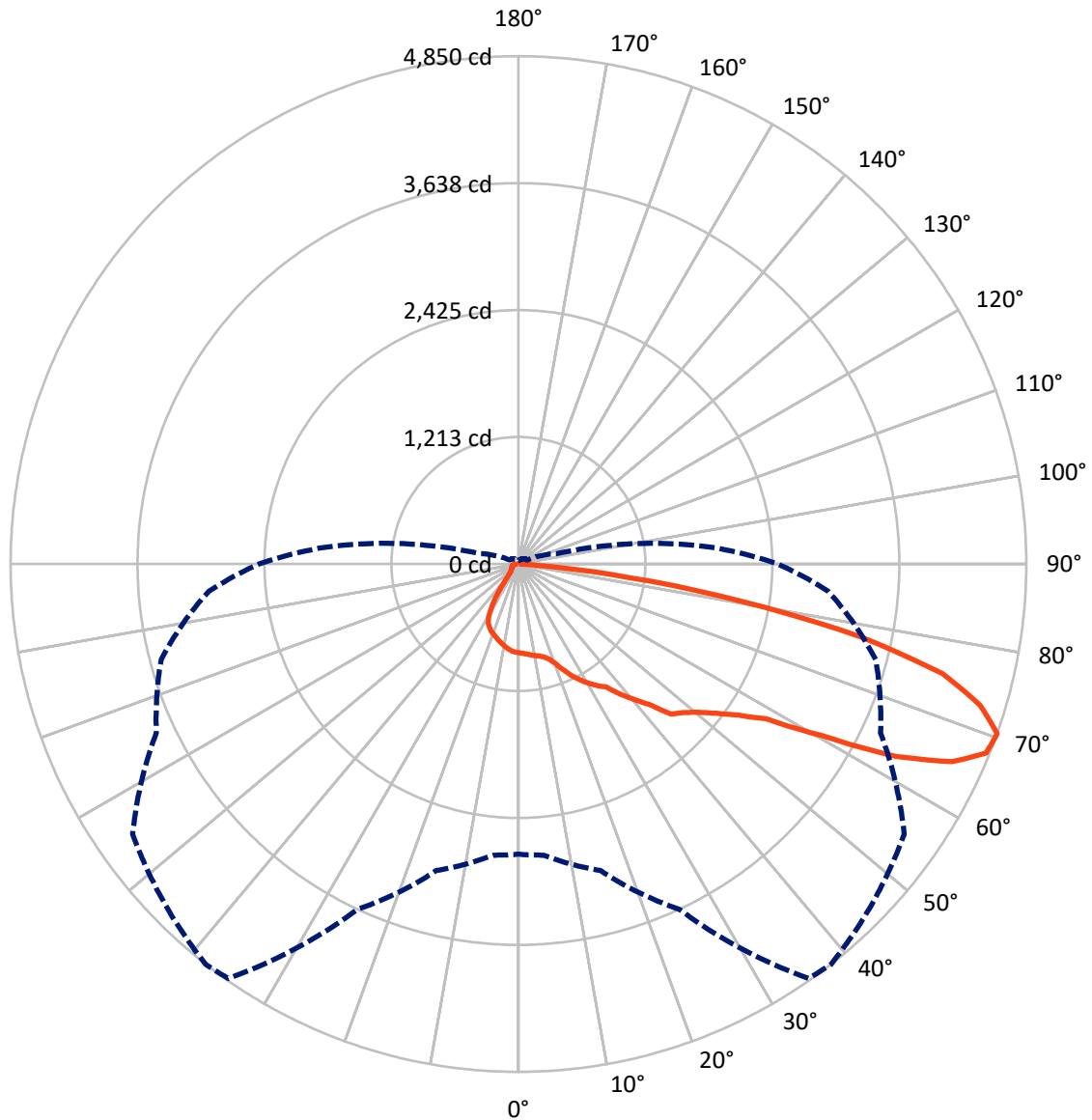
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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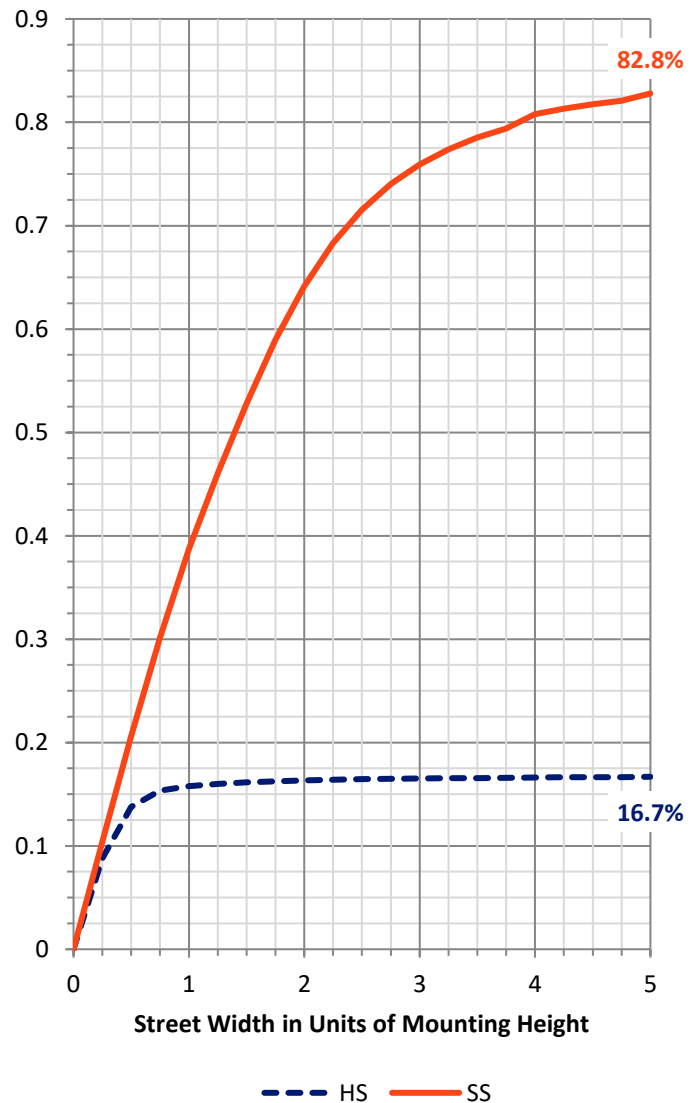
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1337.1	0.0	1337.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6566.0	0.0	6566.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	7903.0	0.0	7903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.0
10°-20°	245.4	3.1
20°-30°	451.8	5.7
30°-40°	707.4	9.0
40°-50°	1074.6	13.6
50°-60°	1545.1	19.6
60°-70°	2075.8	26.3
70°-80°	1537.9	19.5
80°-90°	183.9	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°	7903.0	100.0
0°-180°	7903.0	100.0



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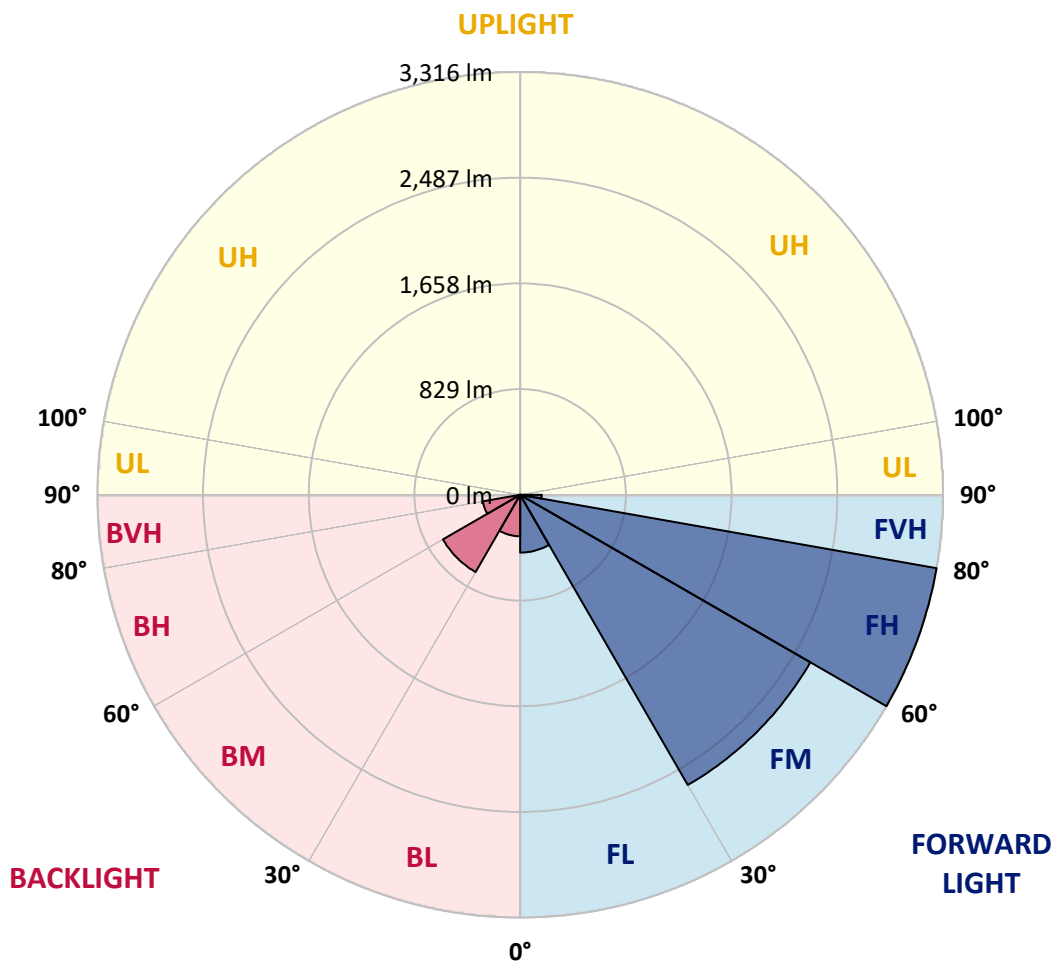
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.1	5.7			
FM (30°-60°)	2627.7	33.2			
FH (60°-80°)	3316.0	42.0			G2/5000
FVH (80°-90°)	169.2	2.1			G2/225
BL (0°-30°)	325.2	4.1	B1/500		
BM (30°-60°)	699.4	8.8	B1/1000		
BH (60°-80°)	297.7	3.8	B1/500		G1/500
BVH (80°-90°)	14.8	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1
2.5°	859.6	859.6	859.6	857.1	857.1	854.6	854.6	852.1	852.1	849.6	847.1
5°	872.1	872.1	869.6	867.1	864.6	864.6	864.6	862.1	857.1	857.1	852.1
7.5°	877.1	877.1	877.1	877.1	877.1	877.1	877.1	874.6	872.1	869.6	864.6
10°	879.6	879.6	882.1	882.1	887.1	889.6	889.6	892.1	889.6	884.6	879.6
12.5°	887.1	889.6	889.6	892.1	899.6	902.1	904.6	912.1	912.1	907.1	902.1
15°	902.1	902.1	904.6	909.6	919.5	922.0	929.5	937.0	942.0	937.0	932.0
17.5°	947.0	947.0	947.0	947.0	952.0	954.5	964.5	977.0	982.0	982.0	979.5
20°	1037.0	1037.0	1032.0	1022.0	1017.0	1017.0	1014.5	1019.5	1029.5	1037.0	1039.5
22.5°	1139.4	1136.9	1134.4	1119.4	1102.0	1097.0	1092.0	1087.0	1092.0	1104.5	1109.5
25°	1219.4	1221.9	1219.4	1199.4	1184.4	1181.9	1174.4	1176.9	1176.9	1179.4	1186.9
27.5°	1284.4	1289.4	1279.4	1269.4	1259.4	1251.9	1256.9	1264.4	1276.9	1271.9	1286.9
30°	1356.8	1354.3	1344.3	1331.8	1324.3	1321.8	1319.3	1346.8	1381.8	1396.8	1414.3
32.5°	1486.8	1484.3	1464.3	1401.8	1384.3	1384.3	1389.3	1424.3	1479.3	1526.7	1571.7
35°	1606.7	1606.7	1581.7	1539.2	1464.3	1441.8	1454.3	1496.8	1576.7	1671.7	1744.1
37.5°	1749.1	1751.6	1724.2	1659.2	1599.2	1576.7	1516.8	1576.7	1674.2	1856.6	1946.5
40°	1914.1	1909.1	1864.1	1794.1	1716.7	1699.2	1649.2	1661.7	1799.1	2074.0	2161.4
42.5°	2006.5	2001.5	1971.5	1916.6	1854.1	1834.1	1789.1	1776.6	1966.5	2313.9	2371.3
45°	2096.5	2101.5	2099.0	2071.5	2056.5	2044.0	2019.0	2021.5	2173.9	2551.2	2553.7
47.5°	2148.9	2158.9	2119.0	2116.5	2119.0	2119.0	2153.9	2223.9	2371.3	2753.6	2713.7
50°	2303.9	2293.9	2171.4	2176.4	2208.9	2223.9	2288.9	2391.3	2646.2	2928.6	2851.1
52.5°	2616.2	2546.2	2391.3	2316.4	2328.9	2366.3	2443.8	2591.2	2921.1	3101.0	2973.5
55°	2966.0	2936.1	2776.1	2583.7	2498.8	2546.2	2628.7	2783.6	3138.5	3248.4	3076.0
57.5°	3208.4	3220.9	3225.9	3071.0	2773.6	2788.6	2841.1	2976.0	3333.4	3398.3	3153.4
60°	3443.3	3460.8	3555.7	3533.3	3435.8	3325.9	3121.0	3165.9	3500.8	3505.8	3213.4
62.5°	3630.7	3640.7	3793.1	3863.1	4038.0	4045.5	3713.2	3428.3	3670.7	3583.2	3235.9
65°	3535.8	3563.2	3785.6	3998.0	4495.3	4550.3	4420.3	3763.1	3800.6	3618.2	3220.9
67.5°	3215.9	3260.9	3470.8	3958.0	4780.1	4817.6	4702.7	4370.3	3848.1	3605.7	3138.5
70°	2771.1	2791.1	3031.0	3638.2	4832.6	4850.1	4707.7	4497.8	3815.6	3533.3	2966.0
72.5°	2253.9	2276.4	2483.8	3128.5	4595.2	4610.2	4572.7	4397.8	3738.2	3398.3	2616.2
75°	1691.7	1726.6	1924.1	2443.8	4058.0	4185.4	4262.9	4187.9	3523.3	2951.0	1991.5
77.5°	1116.9	1119.4	1319.3	1846.6	3215.9	3343.4	3355.8	3293.4	2501.3	1851.6	884.6
80°	479.8	524.7	772.1	1239.4	2136.4	2158.9	2183.9	2019.0	1281.9	572.2	97.5
82.5°	159.9	177.4	324.8	654.7	1052.0	1077.0	1032.0	894.6	359.8	77.5	55.0
85°	67.5	75.0	100.0	179.9	254.9	232.4	217.4	177.4	50.0	45.0	35.0
87.5°	2.5	2.5	2.5	2.5	5.0	2.5	5.0	5.0	7.5	7.5	10.0
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°	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1	847.1
2.5°	847.1	847.1	847.1	844.6	844.6	842.1	842.1	839.6	839.6	839.6	839.6
5°	852.1	852.1	847.1	844.6	839.6	834.6	829.6	824.6	819.6	819.6	819.6
7.5°	862.1	859.6	852.1	842.1	832.1	819.6	812.1	802.1	797.1	792.1	794.6
10°	877.1	872.1	862.1	847.1	827.1	807.1	789.6	774.6	767.1	759.6	757.1
12.5°	897.1	892.1	877.1	854.6	824.6	794.6	767.1	744.6	729.6	722.1	719.6
15°	927.0	919.5	899.6	867.1	824.6	779.6	742.1	709.7	684.7	669.7	669.7
17.5°	974.5	967.0	939.5	894.6	834.6	772.1	714.6	659.7	627.2	609.7	607.2
20°	1037.0	1027.0	994.5	929.5	852.1	769.6	684.7	614.7	559.7	529.7	527.2
22.5°	1109.5	1102.0	1052.0	967.0	869.6	764.6	662.2	569.7	492.3	437.3	424.8
25°	1194.4	1181.9	1107.0	997.0	874.6	752.1	629.7	522.2	414.8	347.3	334.8
27.5°	1294.4	1266.9	1156.9	1019.5	872.1	727.1	592.2	454.8	314.8	264.9	257.4
30°	1401.8	1354.3	1206.9	1034.5	857.1	687.2	527.2	339.8	227.4	197.4	189.9
32.5°	1524.2	1449.3	1251.9	1037.0	824.6	632.2	417.3	232.4	162.4	144.9	142.4
35°	1671.7	1569.2	1299.4	1027.0	777.1	542.2	289.9	157.4	119.9	114.9	114.9
37.5°	1864.1	1721.7	1351.8	997.0	704.7	419.8	192.4	107.4	104.9	107.4	107.4
40°	2066.5	1896.6	1416.8	952.0	612.2	302.4	122.4	100.0	100.0	102.4	102.4
42.5°	2258.9	2064.0	1499.3	892.1	507.2	194.9	100.0	95.0	92.5	95.0	97.5
45°	2421.3	2221.4	1579.2	827.1	387.3	124.9	97.5	90.0	85.0	87.5	87.5
47.5°	2566.2	2341.3	1624.2	749.6	272.4	97.5	97.5	82.5	77.5	77.5	80.0
50°	2688.7	2436.3	1649.2	659.7	172.4	95.0	87.5	77.5	72.5	72.5	70.0
52.5°	2791.1	2506.3	1646.7	559.7	112.4	92.5	82.5	72.5	65.0	67.5	67.5
55°	2868.6	2561.2	1609.2	429.8	95.0	87.5	80.0	67.5	62.5	67.5	67.5
57.5°	2928.6	2586.2	1539.2	299.9	92.5	80.0	75.0	62.5	57.5	60.0	60.0
60°	2958.5	2573.7	1429.3	187.4	90.0	77.5	70.0	57.5	52.5	50.0	52.5
62.5°	2948.5	2528.8	1271.9	124.9	85.0	72.5	65.0	55.0	47.5	42.5	42.5
65°	2888.6	2428.8	1084.5	104.9	82.5	72.5	62.5	52.5	42.5	40.0	40.0
67.5°	2753.6	2221.4	804.6	97.5	82.5	70.0	60.0	50.0	42.5	37.5	37.5
70°	2476.3	1849.1	387.3	90.0	82.5	72.5	60.0	47.5	40.0	35.0	35.0
72.5°	2004.0	1306.9	100.0	77.5	80.0	72.5	62.5	47.5	37.5	32.5	32.5
75°	1306.9	627.2	85.0	62.5	72.5	67.5	60.0	47.5	37.5	30.0	30.0
77.5°	424.8	87.5	77.5	55.0	65.0	65.0	60.0	47.5	37.5	27.5	27.5
80°	67.5	62.5	67.5	42.5	47.5	55.0	47.5	45.0	35.0	25.0	25.0
82.5°	47.5	57.5	50.0	35.0	42.5	45.0	37.5	30.0	25.0	22.5	22.5
85°	35.0	37.5	30.0	27.5	32.5	37.5	30.0	22.5	20.0	20.0	20.0
87.5°	12.5	15.0	15.0	20.0	25.0	27.5	17.5	12.5	15.0	15.0	15.0
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)