

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: P482583

Luminaire Tested: **IFLD-M-SA4A-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482583
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

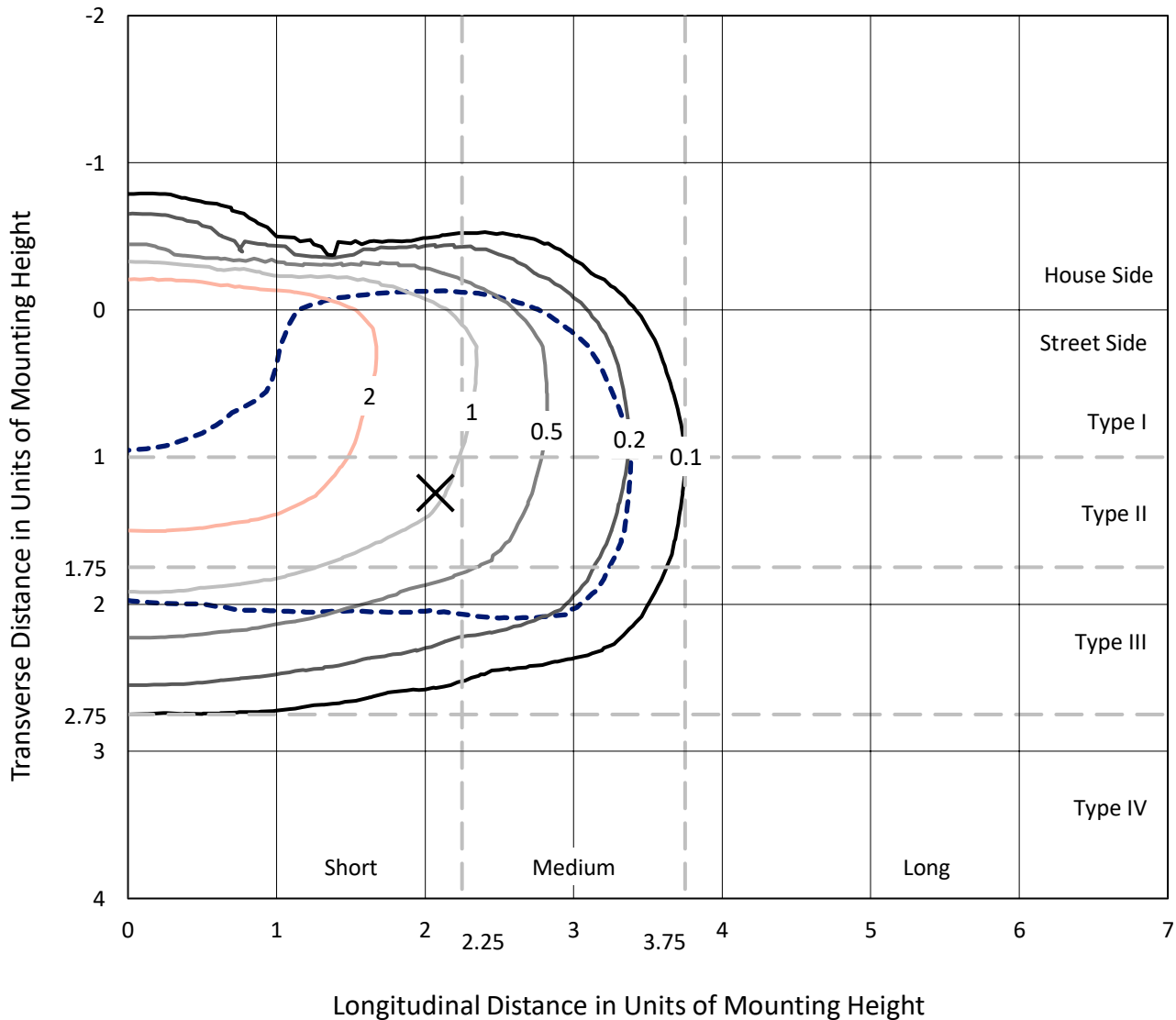
Lumens per Lamp: N/A
Luminaire Lumens: 10073.3 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
Input Voltage (V): 120
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

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Iso-Footcandle Lines of Horizontal Illumination

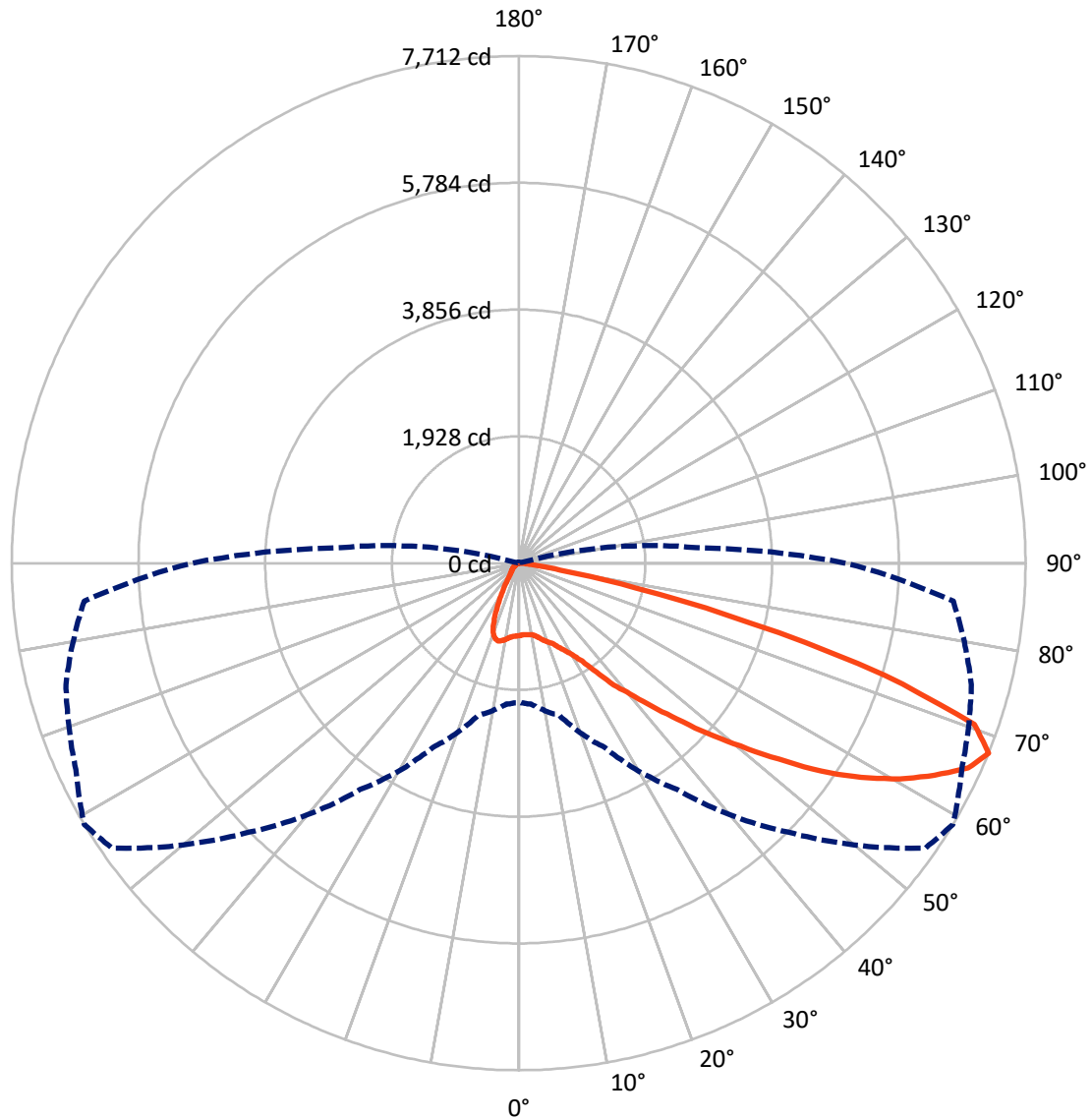
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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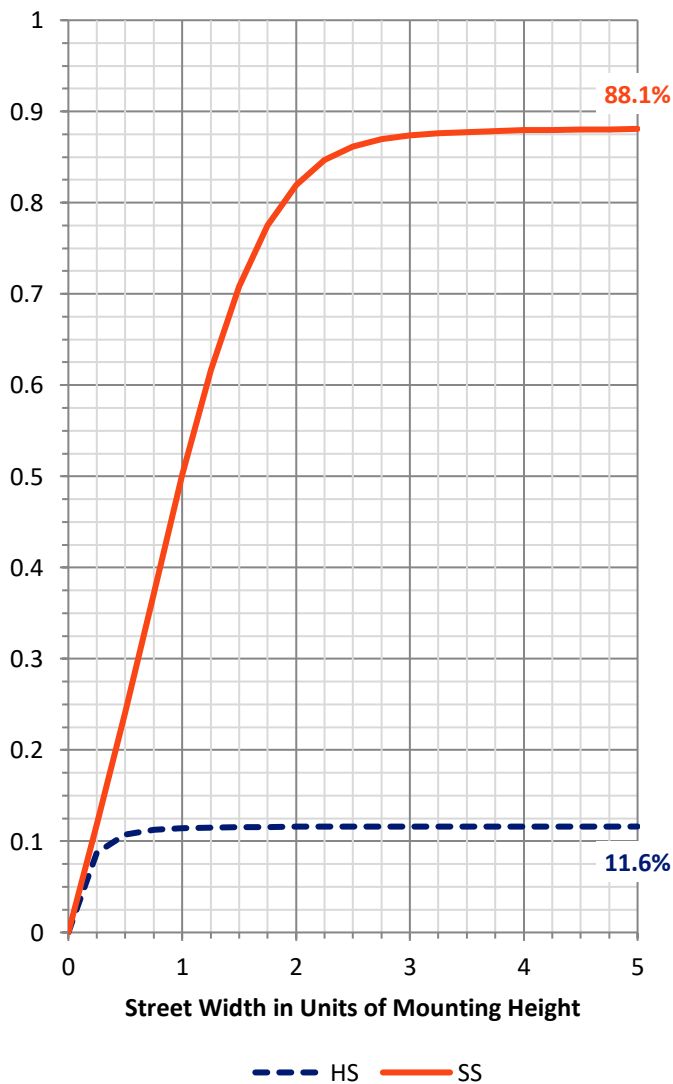
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1183.3	0.0	1183.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8890.0	0.0	8890.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	10073.3	0.0	10073.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.0
10°-20°	303.2	3.0
20°-30°	529.8	5.3
30°-40°	932.8	9.3
40°-50°	1649.0	16.4
50°-60°	2610.9	25.9
60°-70°	2896.2	28.8
70°-80°	1004.9	10.0
80°-90°	41.4	0.4
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°	10073.3	100.0
0°-180°	10073.3	100.0

Coefficient of Utilization

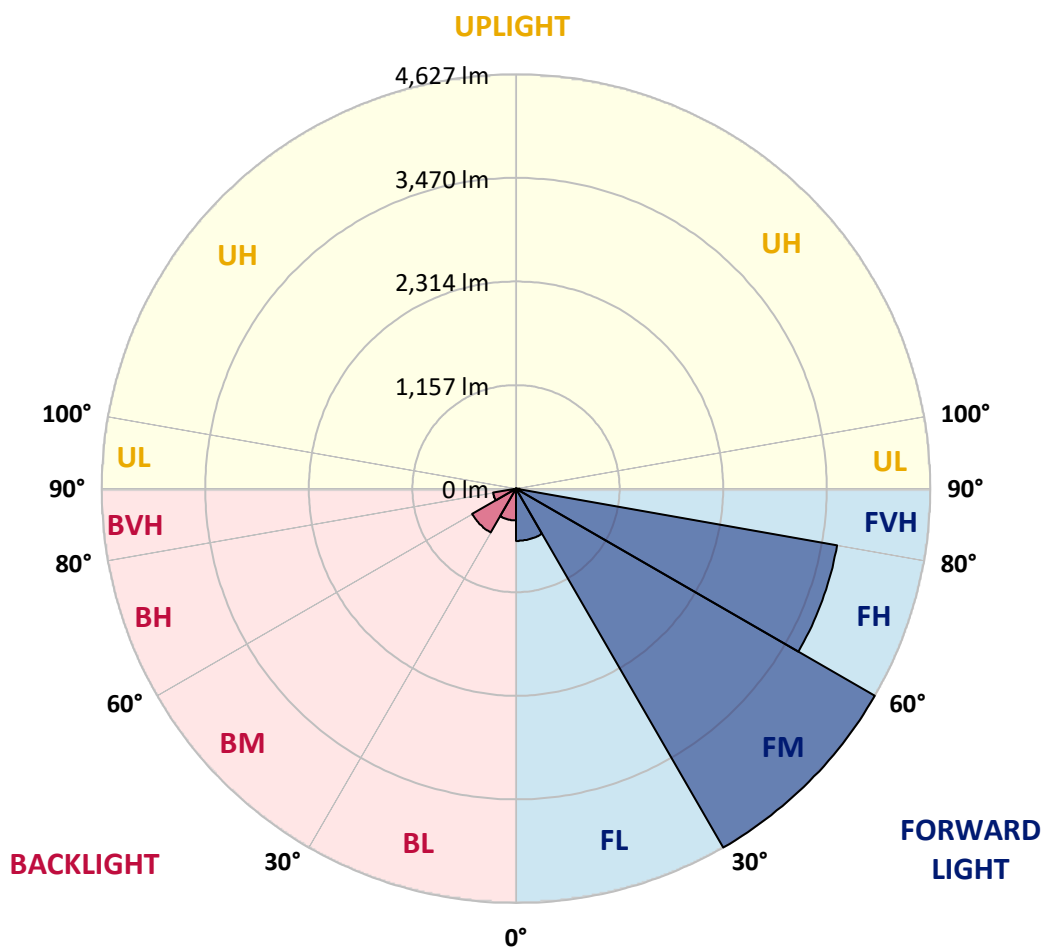


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.3	5.8			
FM (30°-60°)	4627.0	45.9			
FH (60°-80°)	3640.9	36.1			G2/5000
FVH (80°-90°)	38.7	0.4			G1/100
BL (0°-30°)	354.6	3.5	B1/500		
BM (30°-60°)	565.7	5.6	B1/1000		
BH (60°-80°)	260.2	2.6	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9
2.5°	1072.8	1057.5	1071.5	1072.8	1074.2	1086.8	1100.7	1090.9	1089.5	1100.7	1110.4
5°	1029.7	1022.8	1039.5	1047.8	1061.7	1072.8	1095.1	1096.5	1097.9	1110.4	1127.1
7.5°	1011.6	994.9	1014.4	1024.1	1033.9	1060.3	1086.8	1100.7	1120.2	1135.5	1152.2
10°	975.4	988.0	993.5	1010.2	1038.1	1068.7	1100.7	1107.6	1150.8	1163.3	1203.7
12.5°	988.0	996.3	1007.4	1011.6	1042.2	1088.2	1131.3	1134.1	1178.6	1232.9	1253.7
15°	1020.0	1014.4	1018.6	1024.1	1060.3	1097.9	1167.5	1180.0	1221.7	1283.0	1334.5
17.5°	1088.2	1078.4	1071.5	1070.1	1078.4	1113.2	1195.3	1232.9	1271.8	1355.3	1381.8
20°	1259.3	1251.0	1223.1	1150.8	1125.7	1139.6	1228.7	1281.6	1335.8	1429.1	1472.2
22.5°	1519.5	1527.9	1462.5	1360.9	1256.5	1202.3	1281.6	1327.5	1413.8	1532.0	1571.0
25°	1827.0	1810.3	1731.0	1612.8	1448.6	1320.5	1366.5	1417.9	1523.7	1621.1	1636.4
27.5°	2067.8	2048.3	1987.1	1843.7	1701.8	1494.5	1477.8	1509.8	1635.0	1722.7	1706.0
30°	2305.7	2312.7	2270.9	2101.2	1925.8	1707.4	1601.6	1615.5	1711.6	1824.3	1786.7
32.5°	2609.1	2592.4	2568.7	2419.8	2212.5	1978.7	1797.8	1775.6	1817.3	1966.2	1921.7
35°	2891.5	2881.8	2849.8	2699.5	2518.6	2264.0	2087.3	2037.2	2027.4	2193.0	2115.1
37.5°	3137.8	3121.1	3072.4	2976.4	2801.1	2586.8	2393.4	2348.9	2347.5	2461.6	2311.3
40°	3345.2	3357.7	3352.1	3246.4	3150.4	2979.2	2682.8	2611.9	2606.3	2667.5	2579.8
42.5°	3613.7	3643.0	3627.7	3606.8	3491.3	3424.5	3089.1	2980.6	2931.9	3057.1	2977.8
45°	4020.1	4031.2	4040.9	3989.4	3873.9	3887.9	3509.4	3380.0	3367.4	3553.9	3375.8
47.5°	4399.9	4370.7	4438.9	4441.7	4436.1	4372.1	3963.0	3867.0	3883.7	4025.6	3841.9
50°	4494.6	4569.7	4757.6	4792.3	4882.8	4941.2	4466.7	4370.7	4398.5	4560.0	4349.8
52.5°	4568.3	4682.4	4870.3	5124.9	5368.4	5507.6	5030.3	4952.4	4951.0	5049.8	4760.3
55°	4697.7	4767.3	4930.1	5280.8	5744.1	5972.3	5709.3	5584.1	5471.4	5541.0	5186.1
57.5°	4685.2	4711.6	4964.9	5397.6	6041.9	6456.6	6267.3	6147.7	6002.9	5962.6	5675.9
60°	4465.3	4528.0	4811.8	5318.3	6225.6	6833.7	6787.8	6665.3	6416.2	6321.6	6051.7
62.5°	4029.8	4113.3	4335.9	5040.0	5958.4	6853.2	7146.8	7100.8	6822.5	6652.8	6541.5
65°	3265.9	3304.8	3560.9	4333.1	5354.5	6554.0	7571.2	7514.1	7258.1	7004.8	6793.3
67.5°	2115.1	2152.7	2399.0	3093.3	4205.1	5781.7	7554.5	7711.7	7434.8	7130.1	6636.1
70°	999.1	989.4	1219.0	1718.5	2694.0	4415.2	7043.8	7354.1	7118.9	6463.5	5511.7
72.5°	304.7	331.2	506.5	761.2	1383.2	2753.8	5521.5	5812.3	5738.6	5163.9	3679.1
75°	135.0	146.1	199.0	311.7	560.8	1129.9	3410.6	3669.4	3637.4	3046.0	1679.5
77.5°	86.3	94.6	125.2	178.1	254.6	359.0	1571.0	1822.9	1767.2	1070.1	439.7
80°	61.2	65.4	89.1	122.5	160.0	147.5	541.3	642.9	616.4	290.8	118.3
82.5°	33.4	36.2	65.4	90.4	107.1	75.1	151.7	189.2	197.6	129.4	57.1
85°	12.5	15.3	40.4	64.0	55.7	34.8	44.5	54.3	71.0	71.0	26.4
87.5°	0.0	1.4	16.7	27.8	13.9	9.7	12.5	15.3	19.5	33.4	9.7
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°	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9	1104.9
2.5°	1117.4	1107.6	1111.8	1118.8	1103.5	1111.8	1095.1	1107.6	1111.8	1095.1	1103.5
5°	1131.3	1141.0	1135.5	1124.3	1114.6	1117.4	1113.2	1103.5	1111.8	1114.6	1109.0
7.5°	1171.6	1160.5	1163.3	1150.8	1131.3	1129.9	1103.5	1096.5	1099.3	1102.1	1092.3
10°	1209.2	1216.2	1202.3	1192.5	1160.5	1139.6	1103.5	1064.5	1060.3	1043.6	1057.5
12.5°	1276.0	1259.3	1253.7	1221.7	1189.7	1120.2	1042.2	982.4	932.3	914.2	896.1
15°	1331.7	1328.9	1319.1	1270.4	1196.7	1070.1	922.6	783.4	687.4	627.6	619.2
17.5°	1408.2	1395.7	1377.6	1301.1	1145.2	939.3	687.4	512.1	416.1	378.5	364.6
20°	1466.6	1456.9	1431.9	1294.1	1052.0	699.9	425.8	325.6	302.0	295.0	296.4
22.5°	1551.5	1520.9	1473.6	1259.3	882.2	466.2	306.1	290.8	286.6	281.1	282.5
25°	1625.3	1597.4	1498.6	1199.5	629.0	308.9	283.9	275.5	268.6	261.6	260.2
27.5°	1690.7	1655.9	1525.1	1077.0	393.8	265.8	263.0	253.3	239.3	228.2	224.0
30°	1754.7	1714.3	1532.0	847.4	265.8	240.7	233.8	218.5	200.4	185.1	182.3
32.5°	1861.8	1813.1	1522.3	605.3	229.6	214.3	199.0	180.9	154.5	141.9	139.2
35°	2028.8	1955.1	1509.8	356.2	205.9	189.2	165.6	141.9	122.5	109.9	107.1
37.5°	2220.8	2092.8	1473.6	237.9	189.2	167.0	136.4	112.7	96.0	86.3	83.5
40°	2506.1	2294.6	1334.5	194.8	168.4	141.9	109.9	89.1	76.5	69.6	66.8
42.5°	2820.6	2525.6	1120.2	175.3	148.9	121.1	87.7	72.4	62.6	55.7	55.7
45°	3197.7	2766.3	864.1	160.0	132.2	100.2	72.4	58.4	50.1	44.5	41.7
47.5°	3617.9	2984.8	583.0	144.7	111.3	82.1	59.8	44.5	36.2	32.0	32.0
50°	3993.6	3178.2	371.5	126.6	97.4	68.2	48.7	36.2	29.2	23.7	22.3
52.5°	4334.5	3325.7	256.0	111.3	83.5	55.7	40.4	29.2	22.3	18.1	18.1
55°	4683.8	3400.8	189.2	96.0	72.4	47.3	33.4	26.4	19.5	15.3	13.9
57.5°	4970.5	3432.8	144.7	83.5	61.2	37.6	29.2	22.3	16.7	12.5	11.1
60°	5215.4	3417.5	112.7	69.6	48.7	32.0	25.0	18.1	13.9	9.7	8.3
62.5°	5358.7	3325.7	89.1	59.8	39.0	27.8	20.9	15.3	9.7	7.0	5.6
65°	5361.5	3130.9	69.6	44.5	29.2	23.7	18.1	12.5	7.0	2.8	1.4
67.5°	4977.4	2709.3	55.7	34.8	23.7	18.1	13.9	9.7	2.8	0.0	0.0
70°	3893.4	2049.7	45.9	27.8	19.5	15.3	9.7	5.6	1.4	0.0	0.0
72.5°	2481.1	1227.3	37.6	22.3	16.7	11.1	7.0	4.2	0.0	0.0	0.0
75°	1038.1	378.5	29.2	19.5	12.5	8.3	5.6	1.4	0.0	0.0	0.0
77.5°	267.2	119.7	23.7	16.7	12.5	7.0	4.2	1.4	0.0	0.0	0.0
80°	79.3	44.5	19.5	13.9	9.7	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	36.2	26.4	16.7	12.5	8.3	5.6	2.8	0.0	0.0	0.0	0.0
85°	13.9	8.3	8.3	7.0	7.0	4.2	1.4	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0
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)