

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: P483733

Luminaire Tested: **IFLD-S-SA3A-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483733
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

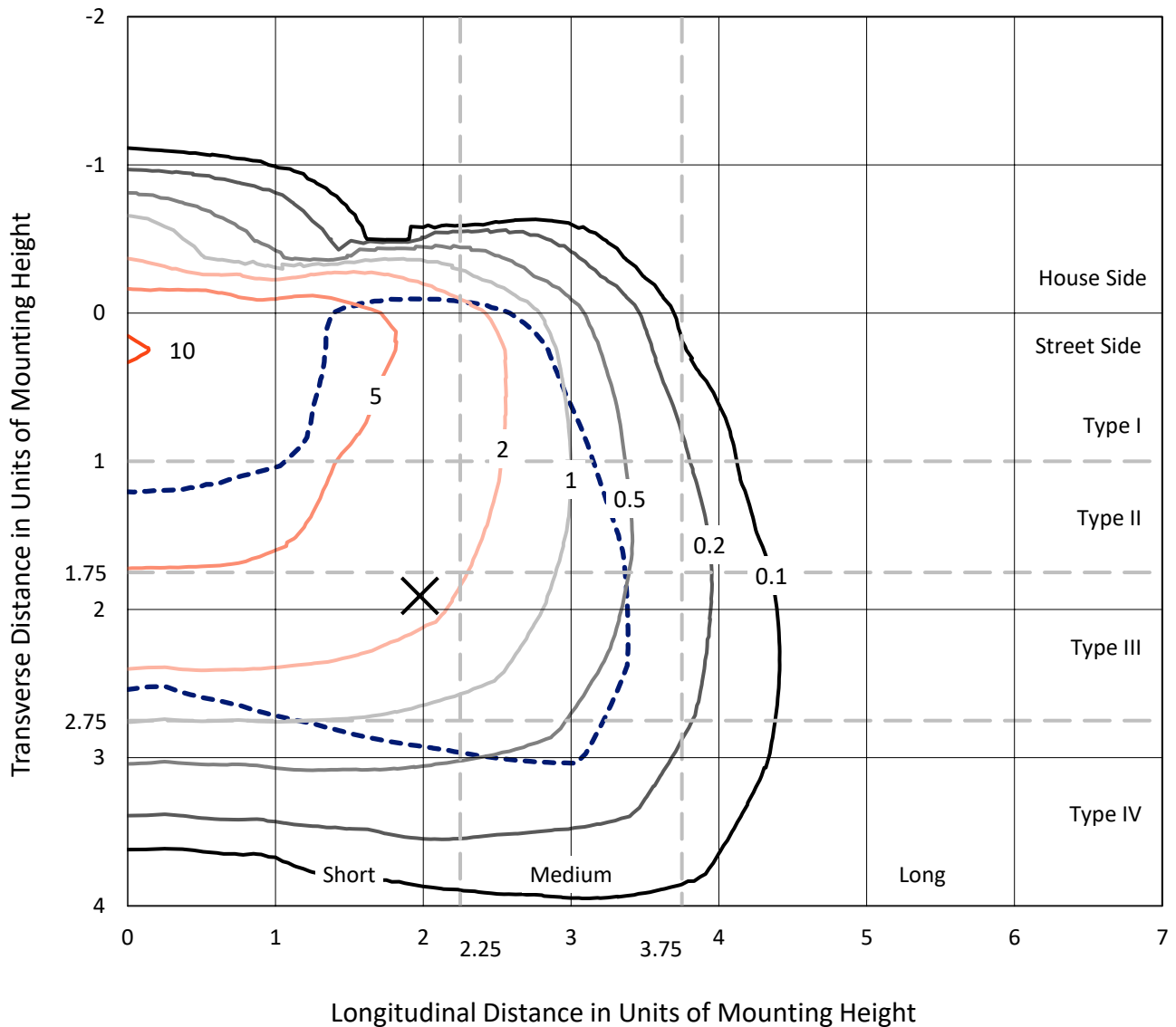
Lumens per Lamp: N/A
Luminaire Lumens: 7462.4 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
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: P483733
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

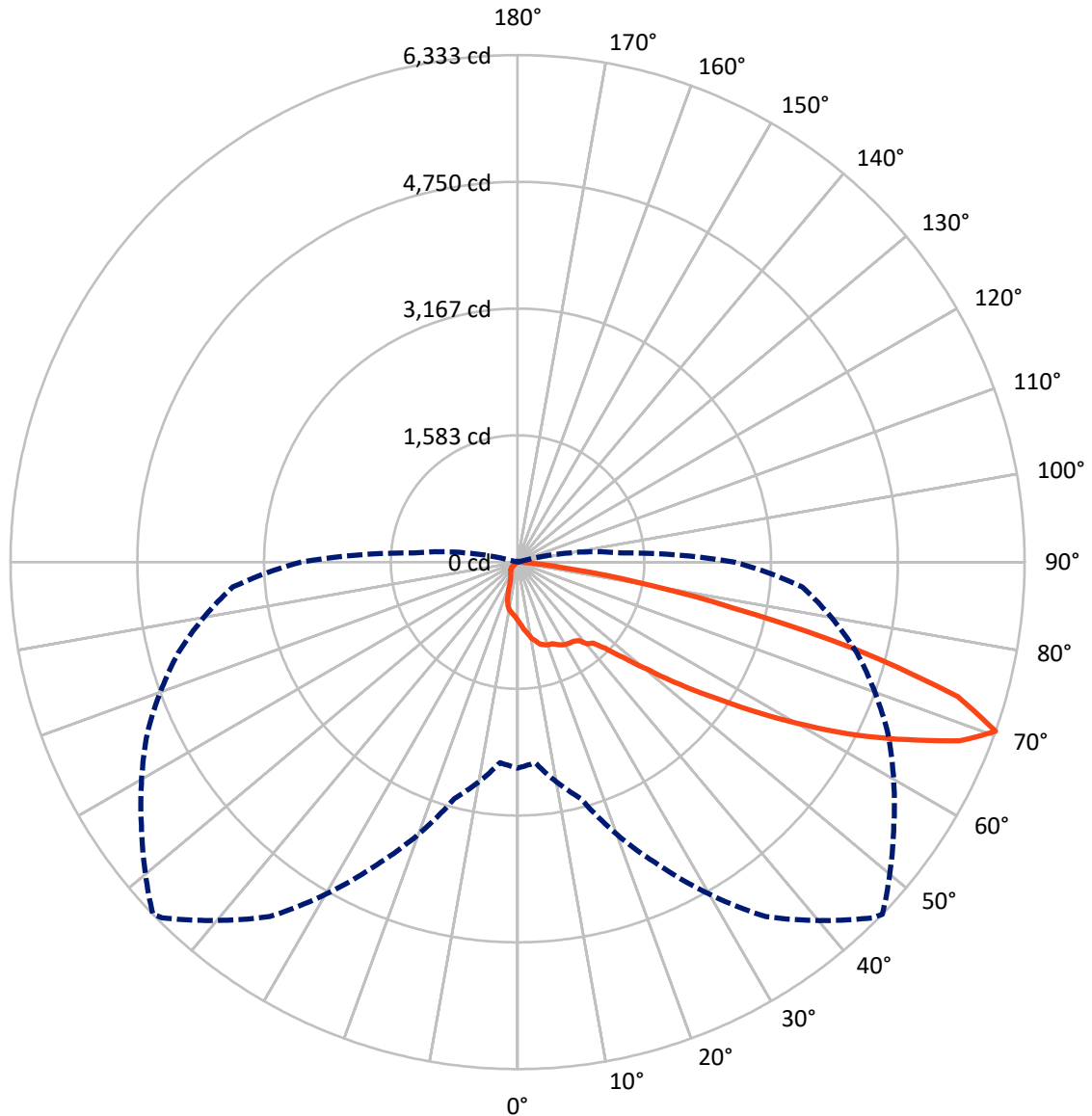
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P483733
CATALOG NUMBER: IFLD-S-SA3A-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483733
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4W-HSS

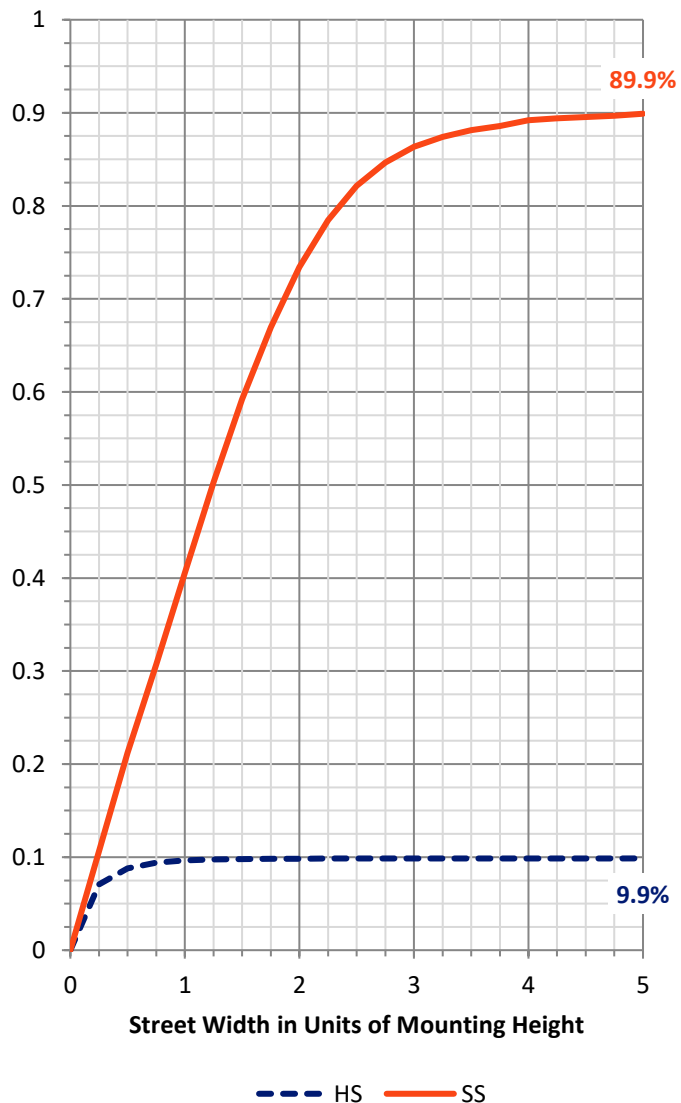
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.5	0.0	742.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6719.9	0.0	6719.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	7462.4	0.0	7462.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.0
10°-20°	220.6	3.0
20°-30°	353.3	4.7
30°-40°	504.3	6.8
40°-50°	870.9	11.7
50°-60°	1667.4	22.3
60°-70°	2469.1	33.1
70°-80°	1222.9	16.4
80°-90°	80.8	1.1
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°	7462.4	100.0
0°-180°	7462.4	100.0

Coefficient of Utilization

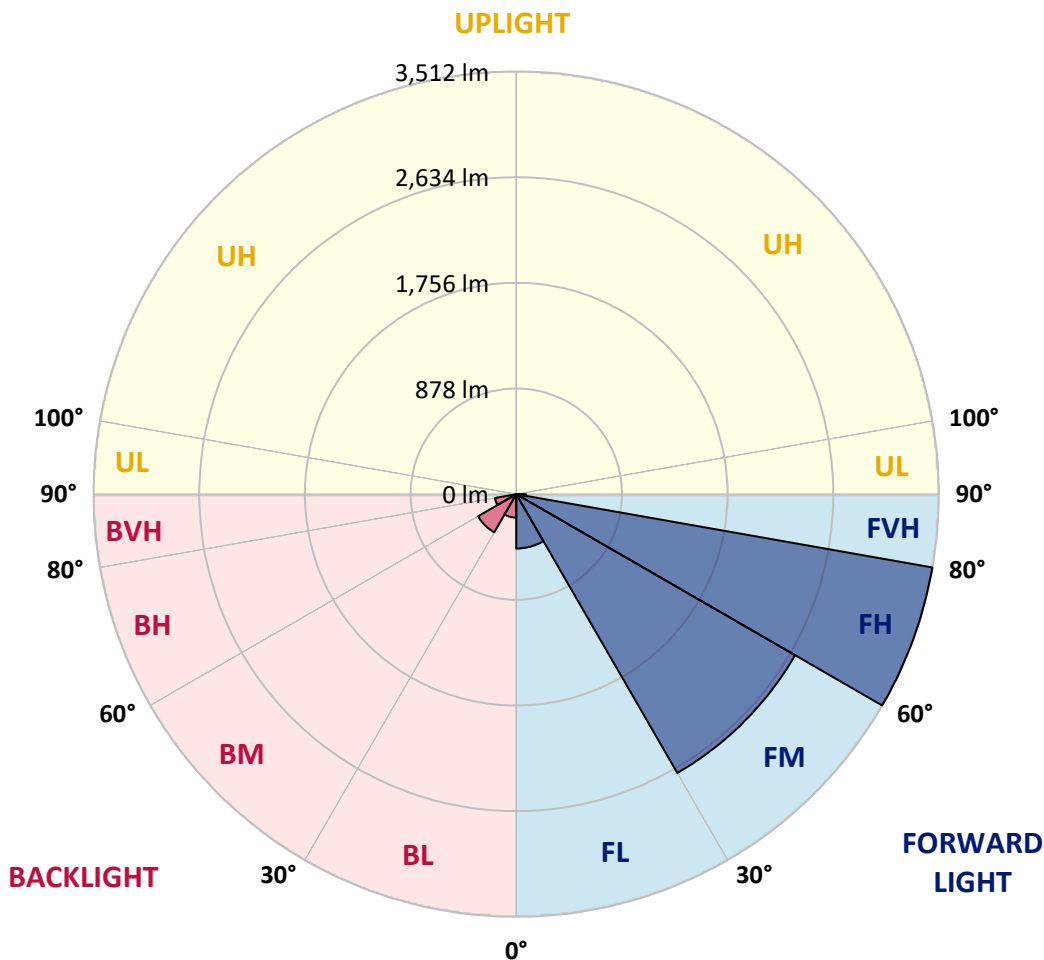


REPORT NUMBER: P483733
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.9	6.1			
FM (30°-60°)	2676.0	35.9			
FH (60°-80°)	3512.2	47.1			G2/5000
FVH (80°-90°)	79.8	1.1			G1/100
BL (0°-30°)	195.1	2.6	B1/500		
BM (30°-60°)	366.6	4.9	B1/1000		
BH (60°-80°)	179.8	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	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 IV Short





REPORT NUMBER: P483733

CATALOG NUMBER: IFLD-S-SA3A-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
2.5°	817.4	812.1	803.5	800.2	791.7	787.4	780.9	777.7	765.9	754.1	746.5
5°	917.3	904.4	908.7	895.8	867.9	845.4	844.3	819.6	792.7	771.2	742.2
7.5°	1018.3	1007.6	991.4	973.2	942.0	908.7	899.1	875.4	837.8	800.2	761.6
10°	1094.6	1087.0	1073.1	1047.3	1004.3	966.7	967.8	928.1	888.3	845.4	792.7
12.5°	1141.8	1145.1	1124.6	1098.9	1061.3	1014.0	1012.9	986.1	941.0	895.8	833.5
15°	1189.1	1200.9	1169.8	1139.7	1091.3	1057.0	1063.4	1031.2	987.1	935.6	866.8
17.5°	1196.6	1199.8	1193.4	1149.3	1113.9	1084.9	1086.0	1064.5	1031.2	975.3	916.3
20°	1183.7	1181.6	1174.1	1141.8	1118.2	1101.0	1102.1	1096.7	1078.5	1033.3	952.8
22.5°	1146.1	1146.1	1136.5	1115.0	1104.2	1120.3	1107.5	1127.9	1108.5	1081.7	1015.1
25°	1116.0	1127.9	1122.5	1108.5	1112.8	1134.3	1140.8	1160.1	1156.9	1123.6	1058.0
27.5°	1148.3	1134.3	1137.5	1121.4	1137.5	1169.8	1173.0	1186.9	1185.9	1159.0	1096.7
30°	1169.8	1182.6	1157.9	1122.5	1139.7	1194.5	1192.3	1210.6	1219.2	1186.9	1133.2
32.5°	1238.5	1227.8	1207.4	1160.1	1162.2	1193.4	1203.1	1226.7	1232.1	1212.7	1168.7
35°	1379.2	1363.1	1273.9	1203.1	1192.3	1207.4	1213.8	1260.0	1269.7	1248.2	1206.3
37.5°	1596.2	1559.7	1452.3	1295.4	1247.1	1243.9	1243.9	1305.1	1341.6	1292.2	1262.1
40°	1906.6	1855.1	1739.1	1466.2	1319.1	1332.0	1344.8	1378.1	1373.8	1341.6	1335.2
42.5°	2301.9	2262.2	2136.5	1753.0	1456.6	1392.1	1381.4	1426.5	1494.2	1481.3	1477.0
45°	2631.7	2633.8	2553.3	2146.2	1693.9	1530.7	1538.2	1572.6	1686.4	1676.8	1675.7
47.5°	2872.3	2842.2	2830.4	2525.3	2039.8	1793.8	1783.1	1806.7	1955.0	2016.2	2044.1
50°	3091.4	3071.0	3043.1	2893.8	2455.5	2123.6	2112.9	2115.0	2341.7	2427.6	2496.3
52.5°	3363.2	3389.0	3296.6	3205.3	2993.7	2552.2	2540.4	2498.5	2779.9	2898.1	2979.7
55°	3698.3	3650.0	3545.8	3593.1	3508.2	3015.2	2993.7	2944.3	3279.4	3328.8	3414.7
57.5°	3772.4	3735.9	3843.3	4010.9	4092.5	3558.7	3550.1	3460.9	3699.4	3654.3	3897.0
60°	3957.2	3966.9	4116.2	4449.2	4590.9	4186.0	4144.1	3987.3	4106.5	4115.1	4374.0
62.5°	4147.3	4124.8	4458.8	4778.9	4997.0	4780.0	4766.0	4454.5	4589.9	4480.3	4823.0
65°	4007.7	4042.0	4520.0	5056.1	5523.3	5361.1	5349.3	4904.6	4978.7	4842.3	5005.6
67.5°	3511.4	3441.6	4110.8	4929.3	5794.0	5970.2	5957.3	5395.5	5197.8	4840.1	4626.4
70°	2573.7	2513.5	3059.2	4174.2	5406.2	6281.7	6333.2	5737.1	5108.7	4389.0	3569.4
72.5°	1261.1	1262.1	1714.4	2830.4	4277.3	5725.3	5751.0	5260.1	4389.0	3235.4	2021.6
75°	372.7	377.0	634.8	1387.8	2764.9	4348.2	4377.2	3992.6	3042.0	1671.4	689.6
77.5°	136.4	136.4	210.5	521.0	1379.2	2744.5	2742.3	2451.2	1540.3	566.1	161.1
80°	70.9	74.1	109.6	212.7	597.2	1429.7	1483.4	1199.8	585.4	238.5	47.3
82.5°	29.0	32.2	60.2	109.6	286.8	501.6	548.9	470.5	254.6	166.5	21.5
85°	8.6	9.7	29.0	61.2	112.8	125.7	139.6	157.9	160.0	128.9	9.7
87.5°	1.1	1.1	11.8	20.4	24.7	26.9	31.2	31.2	81.6	90.2	5.4
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: P483733

CATALOG NUMBER: IFLD-S-SA3A-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6	732.6
2.5°	737.9	732.6	724.0	704.6	700.3	686.4	685.3	672.4	676.7	668.1	664.9
5°	732.6	720.8	697.1	682.1	667.1	657.4	650.9	645.6	644.5	640.2	638.0
7.5°	742.2	726.1	689.6	666.0	640.2	631.6	617.6	616.6	609.0	601.5	601.5
10°	774.5	745.5	705.7	666.0	632.7	604.7	572.5	548.9	540.3	521.0	523.1
12.5°	800.2	774.5	716.5	675.6	625.2	561.8	490.9	436.1	410.3	385.6	395.3
15°	836.8	799.2	736.9	677.8	596.2	486.6	370.6	309.4	285.7	280.4	279.3
17.5°	876.5	836.8	762.7	672.4	537.1	376.0	272.8	237.4	241.7	248.1	247.1
20°	920.6	872.2	782.0	654.2	443.6	272.8	223.4	222.4	228.8	238.5	240.6
22.5°	966.7	924.8	805.6	599.4	330.8	219.1	214.8	214.8	219.1	230.9	228.8
25°	1018.3	962.4	817.4	514.5	237.4	201.9	204.1	208.4	210.5	220.2	221.3
27.5°	1058.0	1004.3	820.7	412.5	193.3	186.9	192.3	197.6	200.9	208.4	211.6
30°	1094.6	1057.0	803.5	307.2	177.2	174.0	176.2	183.7	190.1	196.6	196.6
32.5°	1140.8	1087.0	763.7	218.1	167.6	162.2	161.1	164.3	171.9	179.4	179.4
35°	1188.0	1137.5	700.3	175.1	159.0	151.5	147.2	143.9	147.2	152.5	156.8
37.5°	1256.8	1213.8	620.9	161.1	152.5	141.8	133.2	125.7	120.3	119.2	122.5
40°	1354.5	1299.7	518.8	151.5	145.0	132.1	119.2	106.3	94.5	87.0	88.1
42.5°	1502.7	1426.5	408.2	146.1	139.6	121.4	103.1	84.9	69.8	62.3	62.3
45°	1714.4	1594.0	299.7	140.7	133.2	108.5	84.9	63.4	48.3	44.0	45.1
47.5°	2033.4	1796.0	214.8	132.1	124.6	94.5	66.6	45.1	35.4	33.3	34.4
50°	2450.1	2035.5	167.6	122.5	113.9	79.5	49.4	33.3	27.9	26.9	27.9
52.5°	2887.3	2277.2	147.2	113.9	97.7	63.4	36.5	26.9	23.6	22.6	23.6
55°	3261.1	2433.0	127.8	101.0	78.4	47.3	29.0	23.6	20.4	17.2	17.2
57.5°	3639.2	2511.4	101.0	83.8	58.0	35.4	24.7	20.4	17.2	14.0	12.9
60°	3946.4	2567.2	72.0	62.3	40.8	27.9	21.5	18.3	14.0	10.7	9.7
62.5°	4148.4	2407.2	52.6	47.3	30.1	23.6	18.3	15.0	10.7	7.5	7.5
65°	4048.5	2185.9	40.8	33.3	22.6	18.3	15.0	10.7	7.5	4.3	3.2
67.5°	3632.8	1781.0	33.3	24.7	17.2	14.0	11.8	8.6	4.3	1.1	1.1
70°	2710.1	1305.1	26.9	18.3	14.0	10.7	8.6	5.4	2.1	1.1	0.0
72.5°	1482.3	714.3	21.5	15.0	10.7	8.6	6.4	4.3	2.1	0.0	0.0
75°	489.8	190.1	16.1	10.7	6.4	5.4	4.3	3.2	1.1	0.0	0.0
77.5°	118.2	49.4	12.9	9.7	5.4	3.2	2.1	1.1	1.1	0.0	0.0
80°	36.5	20.4	9.7	6.4	4.3	3.2	1.1	0.0	0.0	0.0	0.0
82.5°	15.0	9.7	4.3	4.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	7.5	5.4	3.2	2.1	2.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	2.1	1.1	1.1	0.0	0.0	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)