

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: P483753

Luminaire Tested: **IFLD-M-SA4A-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483753
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-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

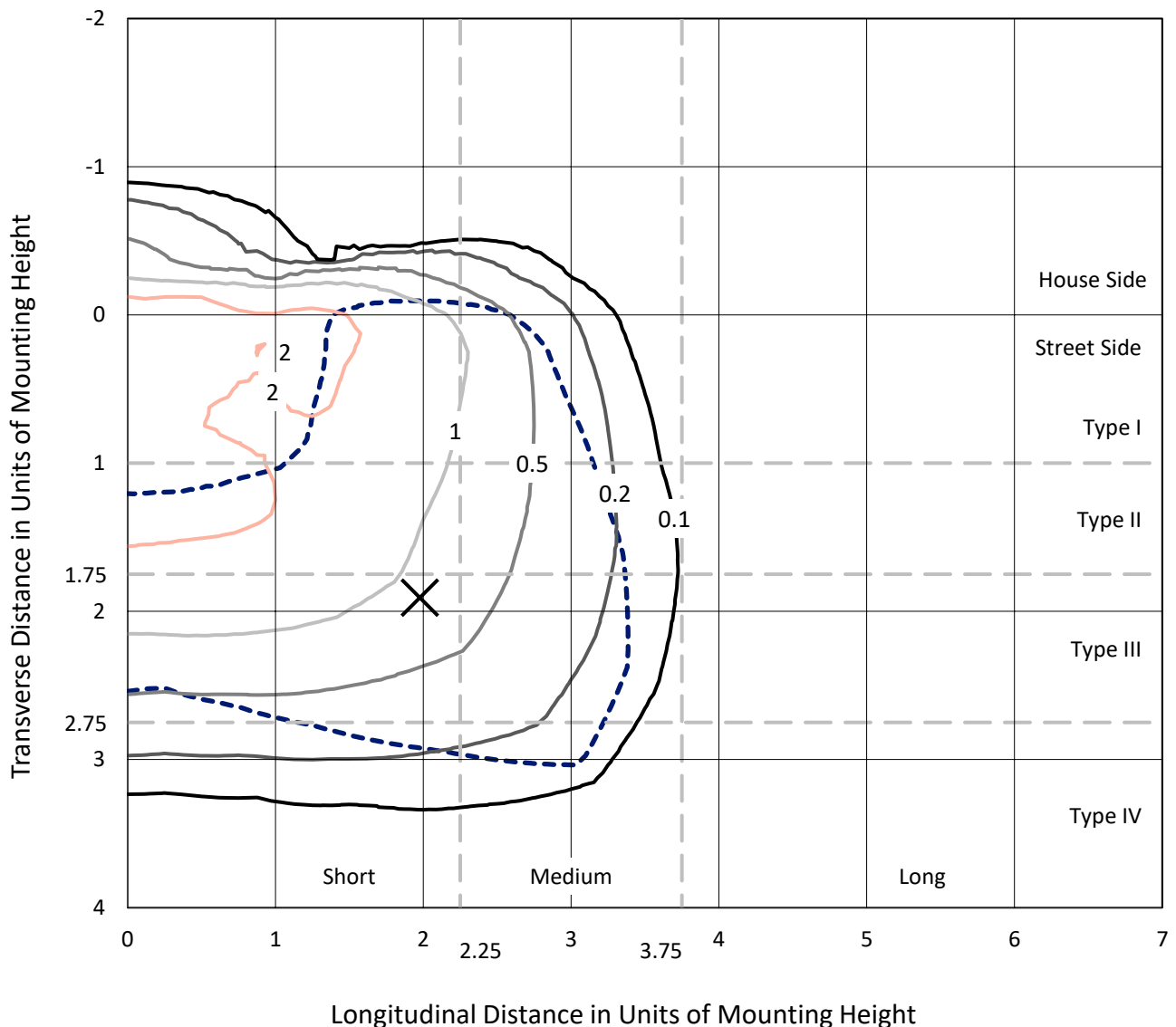
Lumens per Lamp: N/A
Luminaire Lumens: 10016.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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: P483753
 CATALOG NUMBER: IFLD-M-SA4A-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

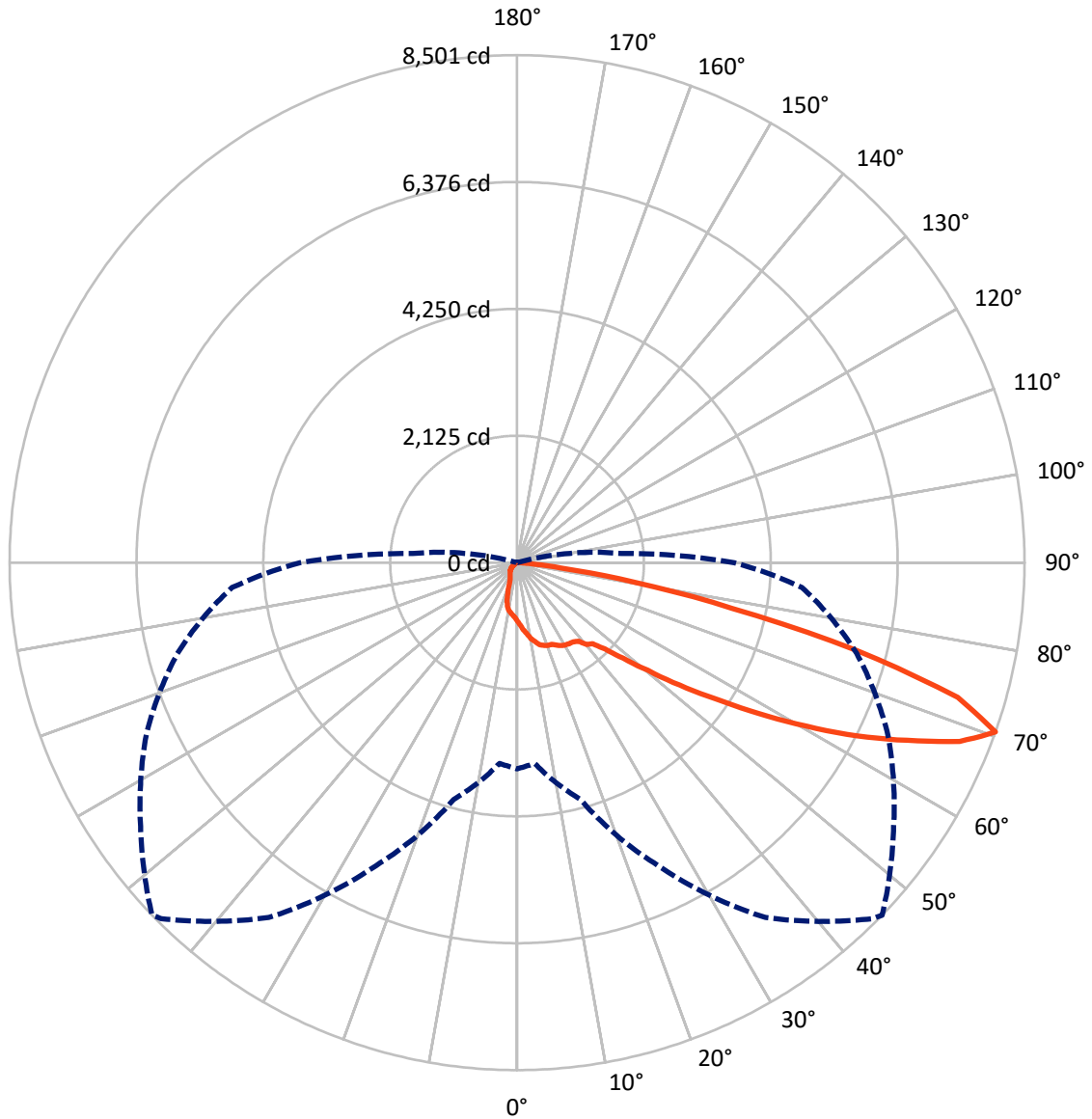
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P483753
CATALOG NUMBER: IFLD-M-SA4A-827-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483753
 CATALOG NUMBER: IFLD-M-SA4A-827-U-T4W-HSS

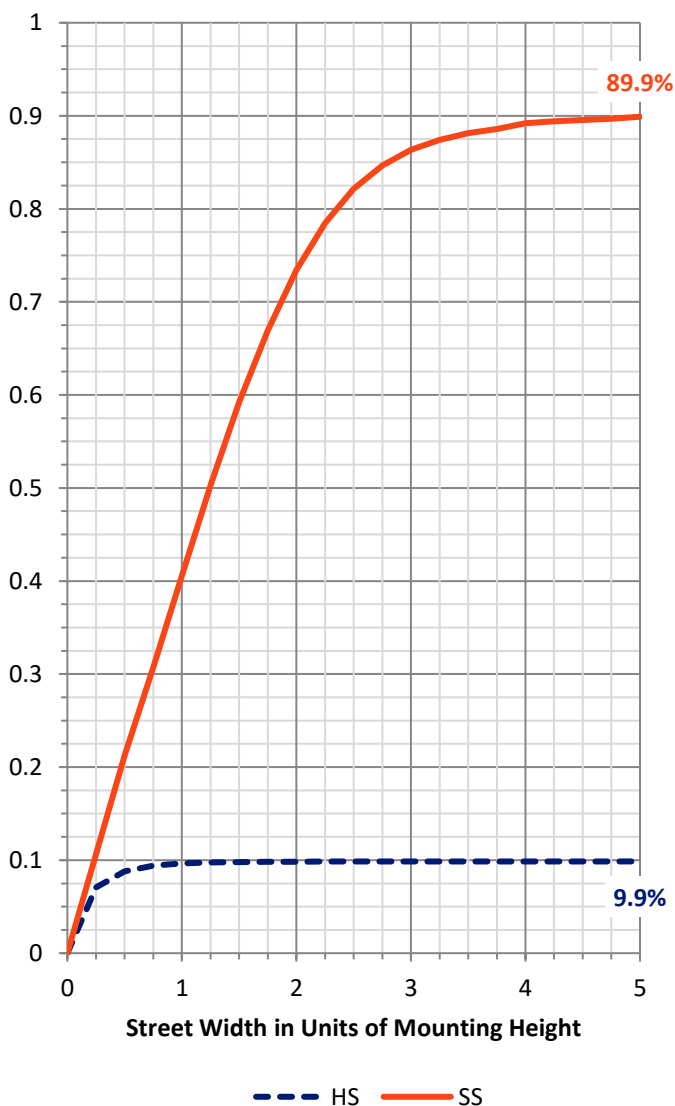
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	996.7	0.0	996.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9019.7	0.0	9019.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	10016.4	0.0	10016.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.0
10°-20°	296.1	3.0
20°-30°	474.3	4.7
30°-40°	677.0	6.8
40°-50°	1168.9	11.7
50°-60°	2238.0	22.3
60°-70°	3314.1	33.1
70°-80°	1641.5	16.4
80°-90°	108.5	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°	10016.4	100.0
0°-180°	10016.4	100.0

Coefficient of Utilization



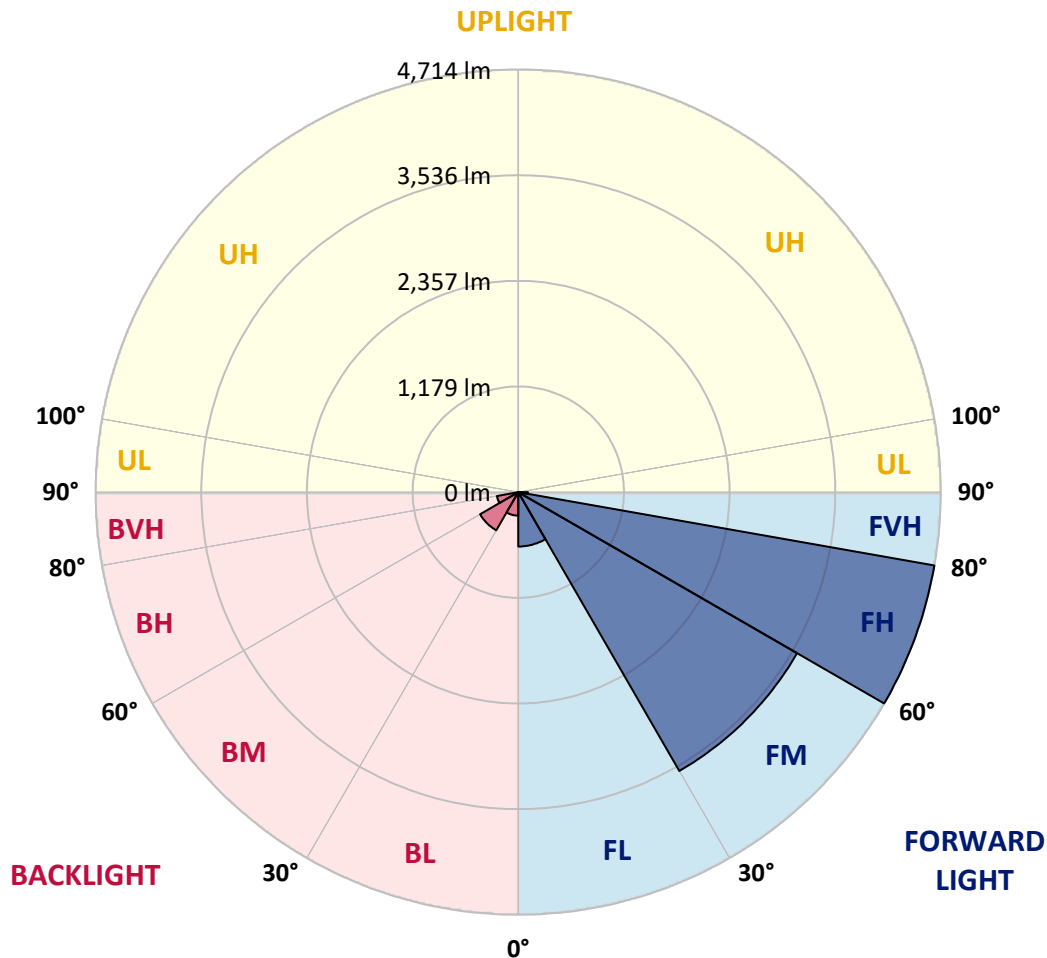
REPORT NUMBER: P483753
 CATALOG NUMBER: IFLD-M-SA4A-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.6	6.1			
FM (30°-60°)	3591.9	35.9			
FH (60°-80°)	4714.2	47.1			G2/5000
FVH (80°-90°)	107.1	1.1			G2/225
BL (0°-30°)	261.8	2.6	B1/500		
BM (30°-60°)	492.1	4.9	B1/1000		
BH (60°-80°)	241.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.4	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: P483753

CATALOG NUMBER: IFLD-M-SA4A-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3
2.5°	1097.2	1090.0	1078.5	1074.1	1062.6	1056.8	1048.2	1043.9	1028.0	1012.1	1002.0
5°	1231.3	1214.0	1219.7	1202.4	1165.0	1134.7	1133.2	1100.1	1064.0	1035.2	996.3
7.5°	1366.8	1352.4	1330.8	1306.3	1264.4	1219.7	1206.8	1175.1	1124.6	1074.1	1022.2
10°	1469.2	1459.1	1440.3	1405.7	1348.1	1297.6	1299.0	1245.7	1192.4	1134.7	1064.0
12.5°	1532.6	1536.9	1509.5	1474.9	1424.5	1361.0	1359.6	1323.6	1263.0	1202.4	1118.8
15°	1596.1	1611.9	1570.1	1529.7	1464.9	1418.7	1427.4	1384.1	1325.0	1255.8	1163.5
17.5°	1606.1	1610.5	1601.8	1542.7	1495.1	1456.2	1457.6	1428.8	1384.1	1309.1	1229.8
20°	1588.8	1586.0	1575.9	1532.6	1500.9	1477.8	1479.3	1472.1	1447.6	1387.0	1278.9
22.5°	1538.4	1538.4	1525.4	1496.6	1482.2	1503.8	1486.5	1513.9	1487.9	1451.9	1362.5
25°	1498.0	1513.9	1506.7	1487.9	1493.7	1522.5	1531.2	1557.1	1552.8	1508.1	1420.2
27.5°	1541.3	1522.5	1526.9	1505.2	1526.9	1570.1	1574.4	1593.2	1591.7	1555.7	1472.1
30°	1570.1	1587.4	1554.2	1506.7	1529.7	1603.3	1600.4	1624.9	1636.4	1593.2	1521.1
32.5°	1662.4	1648.0	1620.6	1557.1	1560.0	1601.8	1614.8	1646.5	1653.7	1627.8	1568.7
35°	1851.3	1829.6	1710.0	1614.8	1600.4	1620.6	1629.2	1691.2	1704.2	1675.4	1619.1
37.5°	2142.5	2093.5	1949.3	1738.8	1673.9	1669.6	1669.6	1751.8	1800.8	1734.5	1694.1
40°	2559.2	2490.0	2334.2	1968.0	1770.5	1787.8	1805.1	1849.8	1844.0	1800.8	1792.1
42.5°	3089.7	3036.4	2867.7	2353.0	1955.1	1868.6	1854.1	1914.7	2005.5	1988.2	1982.5
45°	3532.4	3535.3	3427.1	2880.7	2273.7	2054.5	2064.6	2110.8	2263.6	2250.6	2249.2
47.5°	3855.3	3815.0	3799.1	3389.6	2737.9	2407.8	2393.4	2425.1	2624.0	2706.2	2743.7
50°	4149.5	4122.1	4084.6	3884.2	3295.9	2850.4	2836.0	2838.9	3143.1	3258.4	3350.7
52.5°	4514.2	4548.8	4424.8	4302.3	4018.3	3425.7	3409.8	3353.6	3731.3	3889.9	3999.5
55°	4964.1	4899.2	4759.3	4822.8	4708.9	4047.1	4018.3	3951.9	4401.8	4468.1	4583.4
57.5°	5063.5	5014.5	5158.7	5383.6	5493.2	4776.6	4765.1	4645.4	4965.5	4905.0	5230.8
60°	5311.5	5324.5	5524.9	5971.9	6162.2	5618.6	5562.4	5351.9	5511.9	5523.5	5870.9
62.5°	5566.7	5536.5	5984.8	6414.5	6707.2	6415.9	6397.2	5979.1	6160.7	6013.7	6473.6
65°	5379.3	5425.4	6067.0	6786.5	7413.7	7195.9	7180.1	6583.2	6682.7	6499.6	6718.7
67.5°	4713.2	4619.5	5517.7	6616.4	7777.0	8013.4	7996.1	7242.1	6976.8	6496.7	6209.8
70°	3454.5	3373.8	4106.2	5602.8	7256.5	8431.6	8500.8	7700.6	6857.1	5891.1	4791.1
72.5°	1692.7	1694.1	2301.1	3799.1	5741.2	7684.7	7719.3	7060.4	5891.1	4342.7	2713.4
75°	500.3	506.1	852.1	1862.8	3711.2	5836.3	5875.3	5359.1	4083.1	2243.4	925.6
77.5°	183.1	183.1	282.6	699.3	1851.3	3683.8	3680.9	3290.2	2067.5	759.8	216.3
80°	95.2	99.5	147.1	285.5	801.6	1919.0	1991.1	1610.5	785.8	320.1	63.4
82.5°	38.9	43.3	80.7	147.1	385.0	673.3	736.8	631.5	341.7	223.5	28.8
85°	11.5	13.0	38.9	82.2	151.4	168.7	187.4	211.9	214.8	173.0	13.0
87.5°	1.4	1.4	15.9	27.4	33.2	36.0	41.8	41.8	109.6	121.1	7.2
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: P483753

CATALOG NUMBER: IFLD-M-SA4A-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3	983.3
2.5°	990.5	983.3	971.8	945.8	940.0	921.3	919.9	902.6	908.3	896.8	892.5
5°	983.3	967.4	935.7	915.5	895.3	882.4	873.7	866.5	865.1	859.3	856.4
7.5°	996.3	974.6	925.6	893.9	859.3	847.8	829.0	827.6	817.5	807.4	807.4
10°	1039.5	1000.6	947.3	893.9	849.2	811.7	768.5	736.8	725.2	699.3	702.1
12.5°	1074.1	1039.5	961.7	906.9	839.1	754.1	658.9	585.4	550.8	517.6	530.6
15°	1123.2	1072.7	989.1	909.8	800.2	653.1	497.4	415.2	383.5	376.3	374.9
17.5°	1176.5	1123.2	1023.7	902.6	720.9	504.6	366.2	318.6	324.4	333.1	331.6
20°	1235.6	1170.7	1049.6	878.0	595.5	366.2	299.9	298.4	307.1	320.1	323.0
22.5°	1297.6	1241.4	1081.3	804.5	444.1	294.1	288.4	288.4	294.1	310.0	307.1
25°	1366.8	1291.8	1097.2	690.6	318.6	271.1	273.9	279.7	282.6	295.6	297.0
27.5°	1420.2	1348.1	1101.5	553.6	259.5	250.9	258.1	265.3	269.6	279.7	284.0
30°	1469.2	1418.7	1078.5	412.4	237.9	233.6	236.5	246.5	255.2	263.8	263.8
32.5°	1531.2	1459.1	1025.1	292.7	224.9	217.7	216.3	220.6	230.7	240.8	240.8
35°	1594.6	1526.9	940.0	235.0	213.4	203.3	197.5	193.2	197.5	204.7	210.5
37.5°	1686.9	1629.2	833.4	216.3	204.7	190.3	178.8	168.7	161.5	160.0	164.4
40°	1818.1	1744.6	696.4	203.3	194.6	177.3	160.0	142.7	126.9	116.8	118.2
42.5°	2017.1	1914.7	547.9	196.1	187.4	162.9	138.4	113.9	93.7	83.6	83.6
45°	2301.1	2139.6	402.3	188.9	178.8	145.6	113.9	85.1	64.9	59.1	60.6
47.5°	2729.3	2410.7	288.4	177.3	167.2	126.9	89.4	60.6	47.6	44.7	46.1
50°	3288.7	2732.2	224.9	164.4	152.8	106.7	66.3	44.7	37.5	36.0	37.5
52.5°	3875.5	3056.6	197.5	152.8	131.2	85.1	49.0	36.0	31.7	30.3	31.7
55°	4377.3	3265.6	171.6	135.5	105.3	63.4	38.9	31.7	27.4	23.1	23.1
57.5°	4884.8	3370.9	135.5	112.5	77.9	47.6	33.2	27.4	23.1	18.7	17.3
60°	5297.1	3445.9	96.6	83.6	54.8	37.5	28.8	24.5	18.7	14.4	13.0
62.5°	5568.2	3231.0	70.6	63.4	40.4	31.7	24.5	20.2	14.4	10.1	10.1
65°	5434.1	2934.0	54.8	44.7	30.3	24.5	20.2	14.4	10.1	5.8	4.3
67.5°	4876.1	2390.5	44.7	33.2	23.1	18.7	15.9	11.5	5.8	1.4	1.4
70°	3637.6	1751.8	36.0	24.5	18.7	14.4	11.5	7.2	2.9	1.4	0.0
72.5°	1989.7	958.8	28.8	20.2	14.4	11.5	8.7	5.8	2.9	0.0	0.0
75°	657.5	255.2	21.6	14.4	8.7	7.2	5.8	4.3	1.4	0.0	0.0
77.5°	158.6	66.3	17.3	13.0	7.2	4.3	2.9	1.4	1.4	0.0	0.0
80°	49.0	27.4	13.0	8.7	5.8	4.3	1.4	0.0	0.0	0.0	0.0
82.5°	20.2	13.0	5.8	5.8	4.3	1.4	0.0	0.0	0.0	0.0	0.0
85°	10.1	7.2	4.3	2.9	2.9	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.9	1.4	1.4	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)