

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: P483734

Luminaire Tested: **IFLD-S-SA3B-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483734
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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

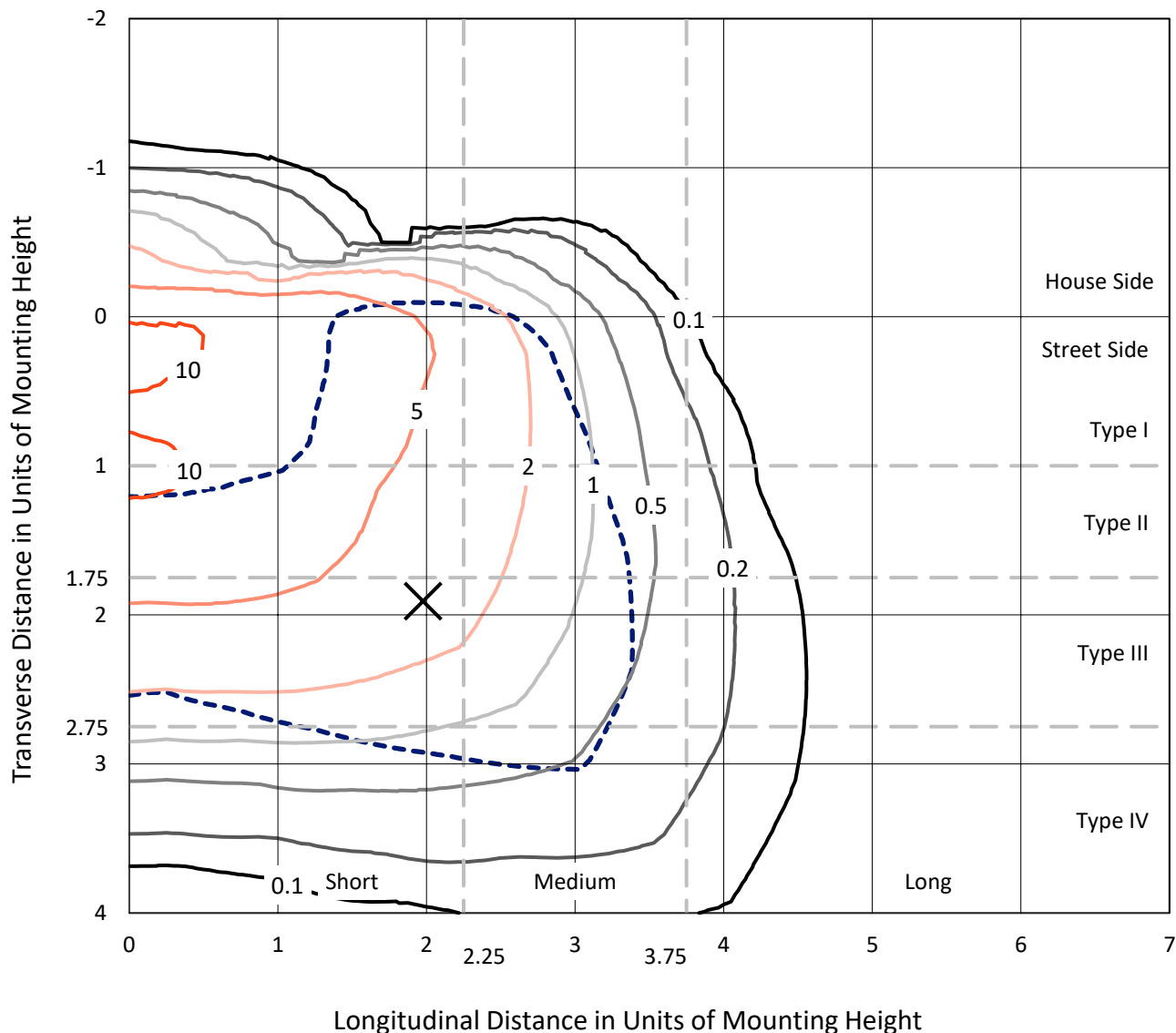
Lumens per Lamp: N/A
Luminaire Lumens: 9229.1 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

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Iso-Footcandle Lines of Horizontal Illumination

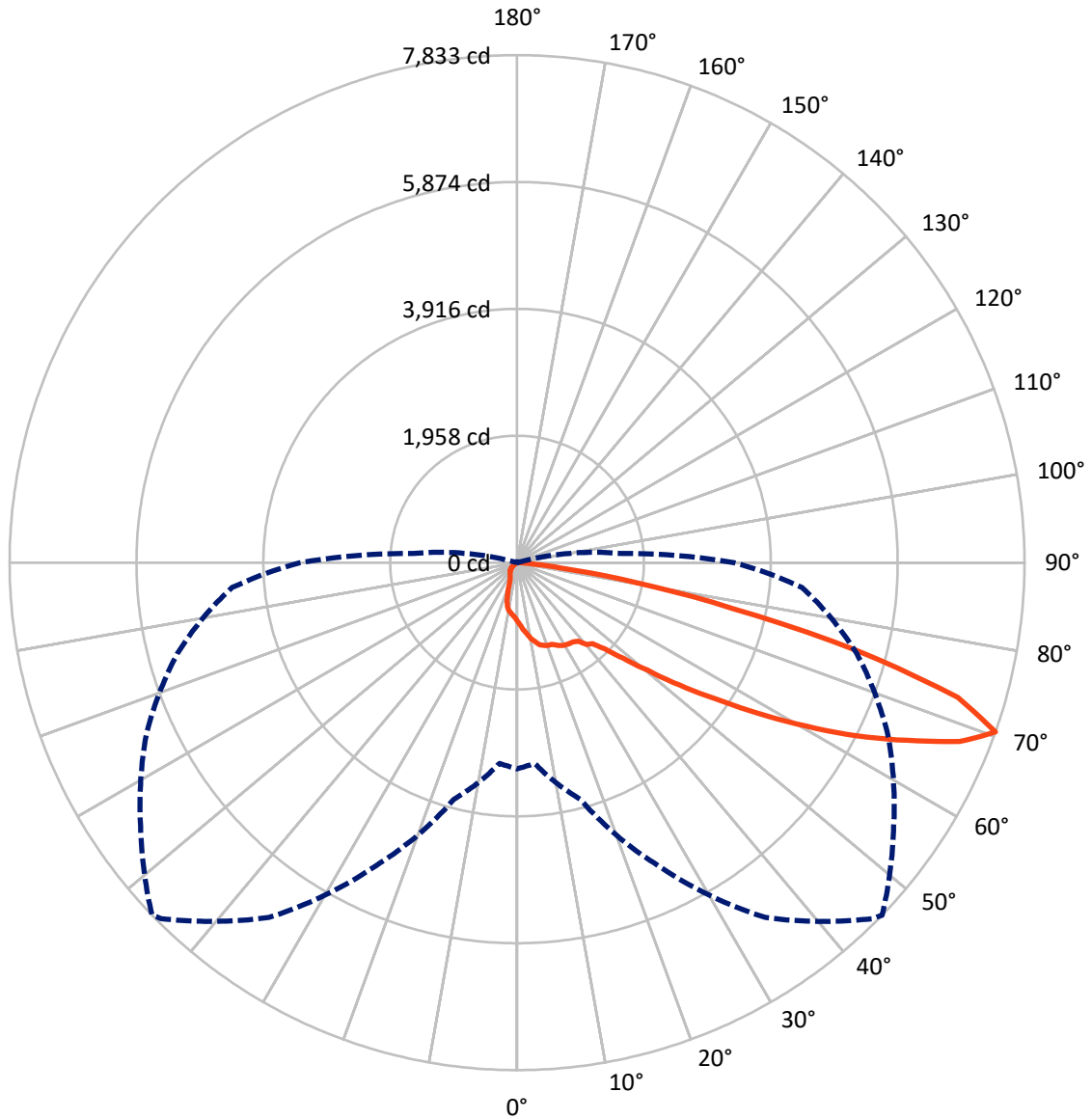
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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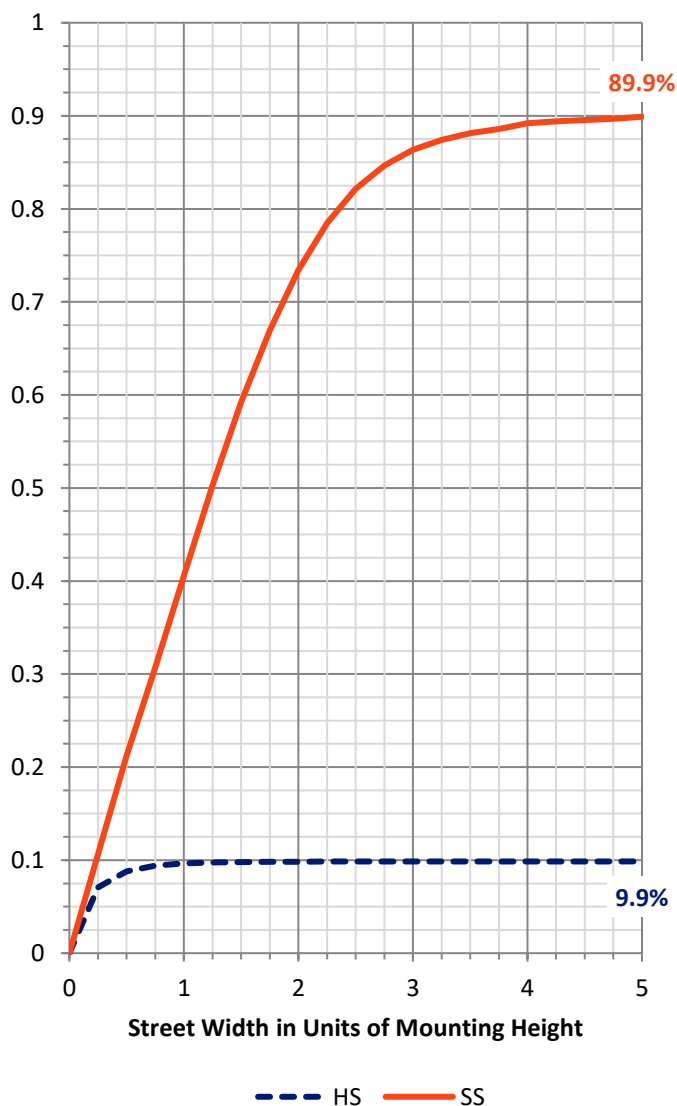
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.3	0.0	918.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	8310.8	0.0	8310.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	9229.1	0.0	9229.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.0
10°-20°	272.8	3.0
20°-30°	437.0	4.7
30°-40°	623.8	6.8
40°-50°	1077.1	11.7
50°-60°	2062.1	22.3
60°-70°	3053.7	33.1
70°-80°	1512.4	16.4
80°-90°	99.9	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°	9229.1	100.0
0°-180°	9229.1	100.0

Coefficient of Utilization



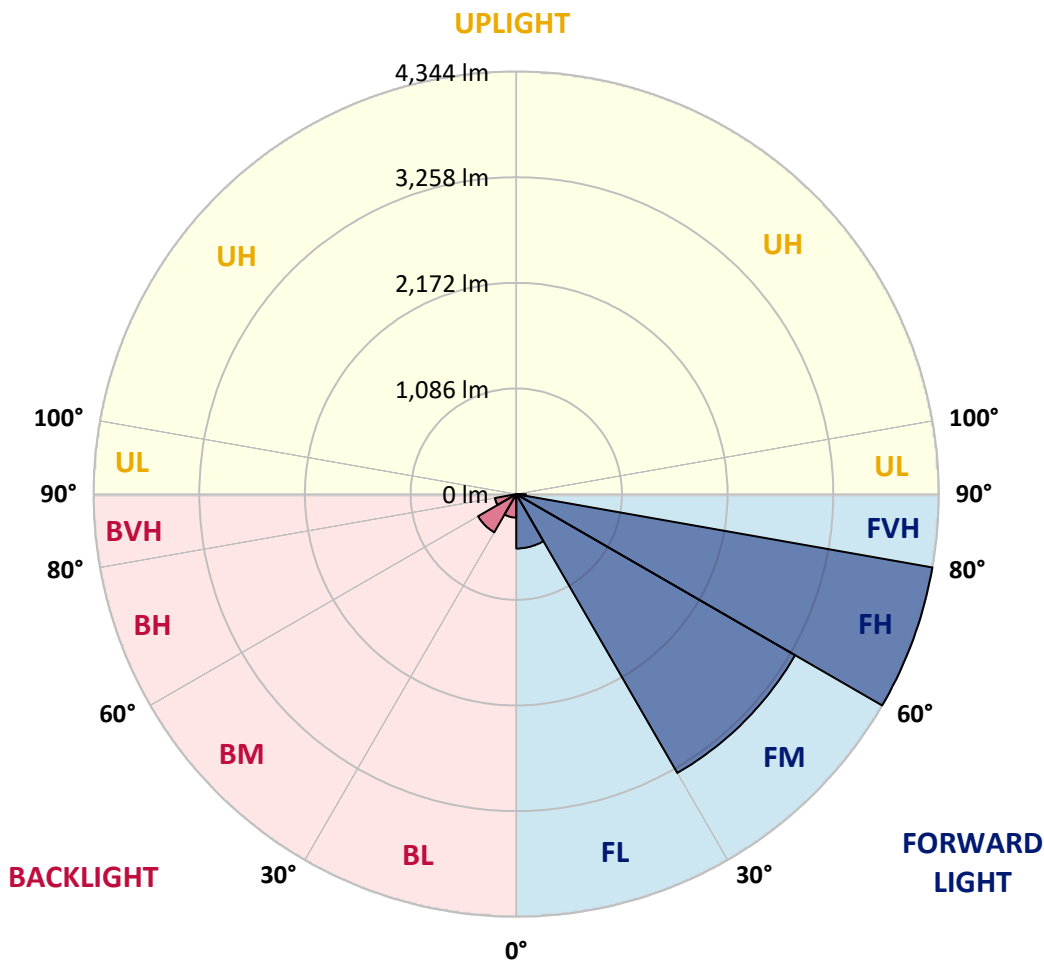
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.9	6.1			
FM (30°-60°)	3309.5	35.9			
FH (60°-80°)	4343.7	47.1			G2/5000
FVH (80°-90°)	98.7	1.1			G1/100
BL (0°-30°)	241.3	2.6	B1/500		
BM (30°-60°)	453.4	4.9	B1/1000		
BH (60°-80°)	222.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	1011.0	1004.3	993.7	989.7	979.1	973.8	965.8	961.8	947.2	932.6	923.3
5°	1134.5	1118.6	1123.9	1107.9	1073.4	1045.5	1044.2	1013.6	980.4	953.8	918.0
7.5°	1259.4	1246.1	1226.2	1203.6	1165.1	1123.9	1111.9	1082.7	1036.2	989.7	941.9
10°	1353.7	1344.4	1327.1	1295.3	1242.1	1195.6	1196.9	1147.8	1098.6	1045.5	980.4
12.5°	1412.2	1416.1	1390.9	1359.0	1312.5	1254.1	1252.7	1219.5	1163.7	1107.9	1030.9
15°	1470.6	1485.2	1446.7	1409.5	1349.7	1307.2	1315.2	1275.3	1220.9	1157.1	1072.1
17.5°	1479.9	1483.9	1475.9	1421.5	1377.6	1341.7	1343.1	1316.5	1275.3	1206.2	1133.2
20°	1464.0	1461.3	1452.0	1412.2	1382.9	1361.7	1363.0	1356.4	1333.8	1278.0	1178.3
22.5°	1417.5	1417.5	1405.5	1378.9	1365.7	1385.6	1369.6	1394.9	1371.0	1337.8	1255.4
25°	1380.3	1394.9	1388.2	1371.0	1376.3	1402.9	1410.8	1434.7	1430.8	1389.6	1308.5
27.5°	1420.1	1402.9	1406.8	1386.9	1406.8	1446.7	1450.7	1468.0	1466.6	1433.4	1356.4
30°	1446.7	1462.6	1432.1	1388.2	1409.5	1477.3	1474.6	1497.2	1507.8	1468.0	1401.5
32.5°	1531.7	1518.4	1493.2	1434.7	1437.4	1475.9	1487.9	1517.1	1523.7	1499.8	1445.4
35°	1705.7	1685.8	1575.6	1487.9	1474.6	1493.2	1501.2	1558.3	1570.2	1543.7	1491.9
37.5°	1974.1	1928.9	1796.1	1602.1	1542.3	1538.4	1538.4	1614.1	1659.3	1598.1	1560.9
40°	2358.0	2294.3	2150.8	1813.4	1631.4	1647.3	1663.2	1704.4	1699.1	1659.3	1651.3
42.5°	2846.9	2797.7	2642.3	2168.1	1801.4	1721.7	1708.4	1764.2	1847.9	1832.0	1826.6
45°	3254.7	3257.4	3157.8	2654.3	2095.0	1893.1	1902.4	1944.9	2085.7	2073.7	2072.4
47.5°	3552.3	3515.1	3500.5	3123.2	2522.8	2218.5	2205.2	2234.5	2417.8	2493.5	2528.1
50°	3823.3	3798.1	3763.5	3578.9	3036.9	2626.4	2613.1	2615.7	2896.0	3002.3	3087.3
52.5°	4159.4	4191.3	4077.1	3964.1	3702.4	3156.4	3141.8	3090.0	3438.1	3584.2	3685.2
55°	4573.9	4514.1	4385.3	4443.7	4338.8	3729.0	3702.4	3641.3	4055.8	4116.9	4223.2
57.5°	4665.6	4620.4	4753.2	4960.5	5061.4	4401.2	4390.6	4280.3	4575.2	4519.4	4819.7
60°	4894.1	4906.0	5090.7	5502.5	5677.9	5177.0	5125.2	4931.3	5078.7	5089.3	5409.5
62.5°	5129.2	5101.3	5514.4	5910.3	6180.0	5911.7	5894.4	5509.1	5676.5	5541.0	5964.8
65°	4956.5	4999.0	5590.2	6253.1	6831.0	6630.4	6615.7	6065.8	6157.4	5988.7	6190.6
67.5°	4342.7	4256.4	5084.0	6096.3	7165.7	7383.6	7367.7	6672.9	6428.4	5986.1	5721.7
70°	3183.0	3108.6	3783.5	5162.4	6686.2	7768.9	7832.6	7095.3	6318.2	5428.1	4414.5
72.5°	1559.6	1560.9	2120.2	3500.5	5289.9	7080.7	7112.6	6505.5	5428.1	4001.3	2500.2
75°	461.0	466.3	785.1	1716.4	3419.5	5377.6	5413.5	4937.9	3762.2	2067.1	852.9
77.5°	168.7	168.7	260.4	644.3	1705.7	3394.2	3391.6	3031.6	1905.0	700.1	199.3
80°	87.7	91.7	135.5	263.0	738.6	1768.2	1834.6	1483.9	724.0	294.9	58.5
82.5°	35.9	39.9	74.4	135.5	354.7	620.4	678.8	581.9	314.8	205.9	26.6
85°	10.6	12.0	35.9	75.7	139.5	155.4	172.7	195.3	197.9	159.4	12.0
87.5°	1.3	1.3	14.6	25.2	30.6	33.2	38.5	38.5	101.0	111.6	6.6
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°	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0	906.0
2.5°	912.7	906.0	895.4	871.5	866.2	848.9	847.6	831.6	836.9	826.3	822.3
5°	906.0	891.4	862.2	843.6	825.0	813.0	805.0	798.4	797.1	791.8	789.1
7.5°	918.0	898.0	852.9	823.6	791.8	781.1	763.9	762.5	753.2	743.9	743.9
10°	957.8	922.0	872.8	823.6	782.5	747.9	708.1	678.8	668.2	644.3	647.0
12.5°	989.7	957.8	886.1	835.6	773.2	694.8	607.1	539.4	507.5	476.9	488.9
15°	1034.9	988.4	911.3	838.3	737.3	601.8	458.3	382.6	353.4	346.7	345.4
17.5°	1084.0	1034.9	943.2	831.6	664.2	465.0	337.4	293.6	298.9	306.9	305.5
20°	1138.5	1078.7	967.1	809.0	548.7	337.4	276.3	275.0	283.0	294.9	297.6
22.5°	1195.6	1143.8	996.3	741.3	409.2	271.0	265.7	265.7	271.0	285.6	283.0
25°	1259.4	1190.3	1011.0	636.3	293.6	249.8	252.4	257.7	260.4	272.3	273.7
27.5°	1308.5	1242.1	1014.9	510.1	239.1	231.2	237.8	244.4	248.4	257.7	261.7
30°	1353.7	1307.2	993.7	379.9	219.2	215.2	217.9	227.2	235.1	243.1	243.1
32.5°	1410.8	1344.4	944.5	269.7	207.2	200.6	199.3	203.3	212.6	221.9	221.9
35°	1469.3	1406.8	866.2	216.5	196.6	187.3	182.0	178.0	182.0	188.6	194.0
37.5°	1554.3	1501.2	767.9	199.3	188.6	175.4	164.7	155.4	148.8	147.5	151.4
40°	1675.2	1607.4	641.6	187.3	179.3	163.4	147.5	131.5	116.9	107.6	108.9
42.5°	1858.5	1764.2	504.8	180.7	172.7	150.1	127.5	104.9	86.4	77.1	77.1
45°	2120.2	1971.4	370.6	174.0	164.7	134.2	104.9	78.4	59.8	54.5	55.8
47.5°	2514.8	2221.2	265.7	163.4	154.1	116.9	82.4	55.8	43.8	41.2	42.5
50°	3030.2	2517.4	207.2	151.4	140.8	98.3	61.1	41.2	34.5	33.2	34.5
52.5°	3570.9	2816.3	182.0	140.8	120.9	78.4	45.2	33.2	29.2	27.9	29.2
55°	4033.2	3009.0	158.1	124.9	97.0	58.5	35.9	29.2	25.2	21.3	21.3
57.5°	4500.8	3105.9	124.9	103.6	71.7	43.8	30.6	25.2	21.3	17.3	15.9
60°	4880.8	3175.0	89.0	77.1	50.5	34.5	26.6	22.6	17.3	13.3	12.0
62.5°	5130.5	2977.1	65.1	58.5	37.2	29.2	22.6	18.6	13.3	9.3	9.3
65°	5007.0	2703.4	50.5	41.2	27.9	22.6	18.6	13.3	9.3	5.3	4.0
67.5°	4492.9	2202.6	41.2	30.6	21.3	17.3	14.6	10.6	5.3	1.3	1.3
70°	3351.7	1614.1	33.2	22.6	17.3	13.3	10.6	6.6	2.7	1.3	0.0
72.5°	1833.3	883.4	26.6	18.6	13.3	10.6	8.0	5.3	2.7	0.0	0.0
75°	605.8	235.1	19.9	13.3	8.0	6.6	5.3	4.0	1.3	0.0	0.0
77.5°	146.1	61.1	15.9	12.0	6.6	4.0	2.7	1.3	1.3	0.0	0.0
80°	45.2	25.2	12.0	8.0	5.3	4.0	1.3	0.0	0.0	0.0	0.0
82.5°	18.6	12.0	5.3	5.3	4.0	1.3	0.0	0.0	0.0	0.0	0.0
85°	9.3	6.6	4.0	2.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.7	1.3	1.3	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)