

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: P483577

Luminaire Tested: **IFLD-S-SA3A-735-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483577
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

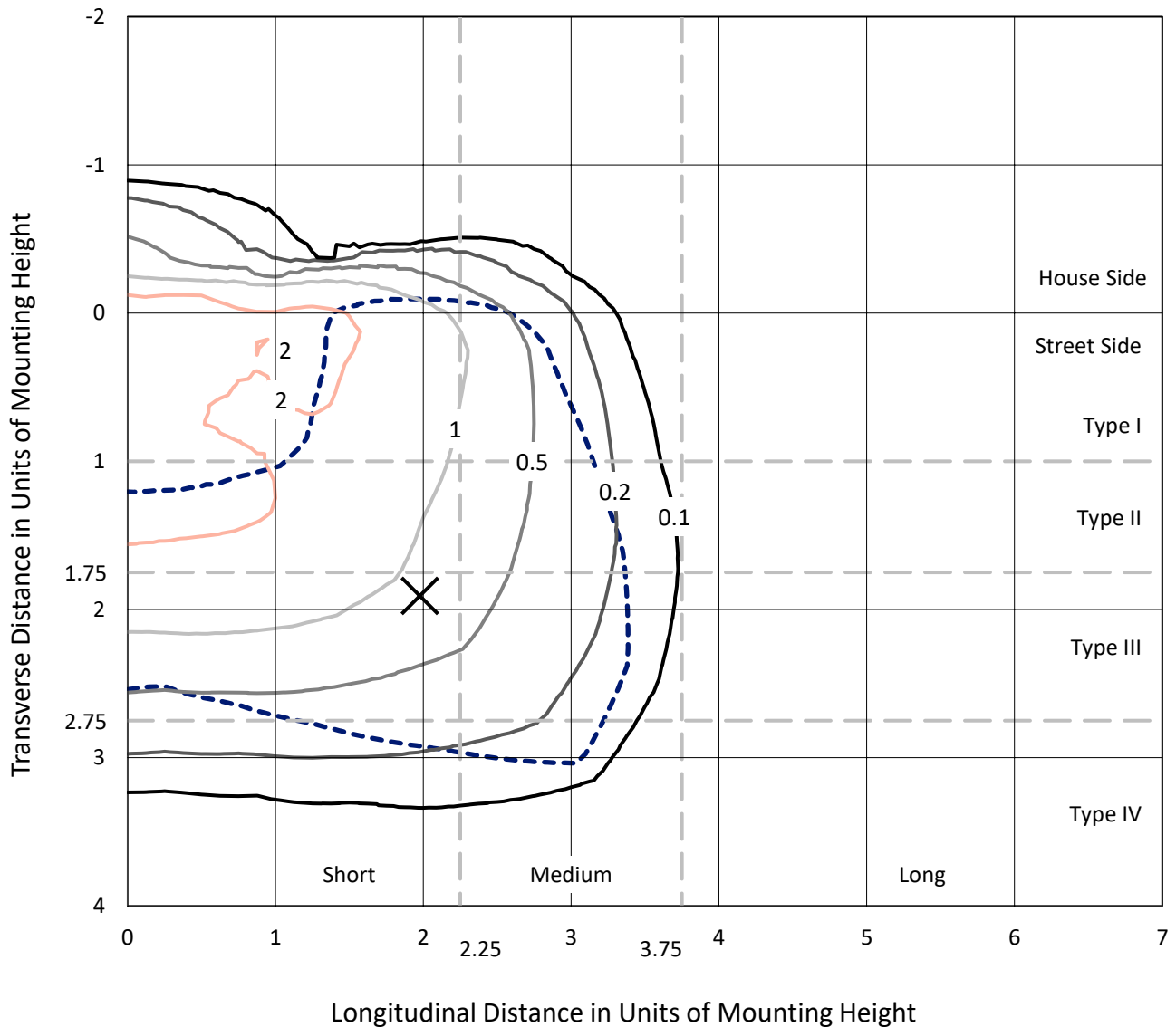
Lumens per Lamp: N/A
Luminaire Lumens: 10012.5 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

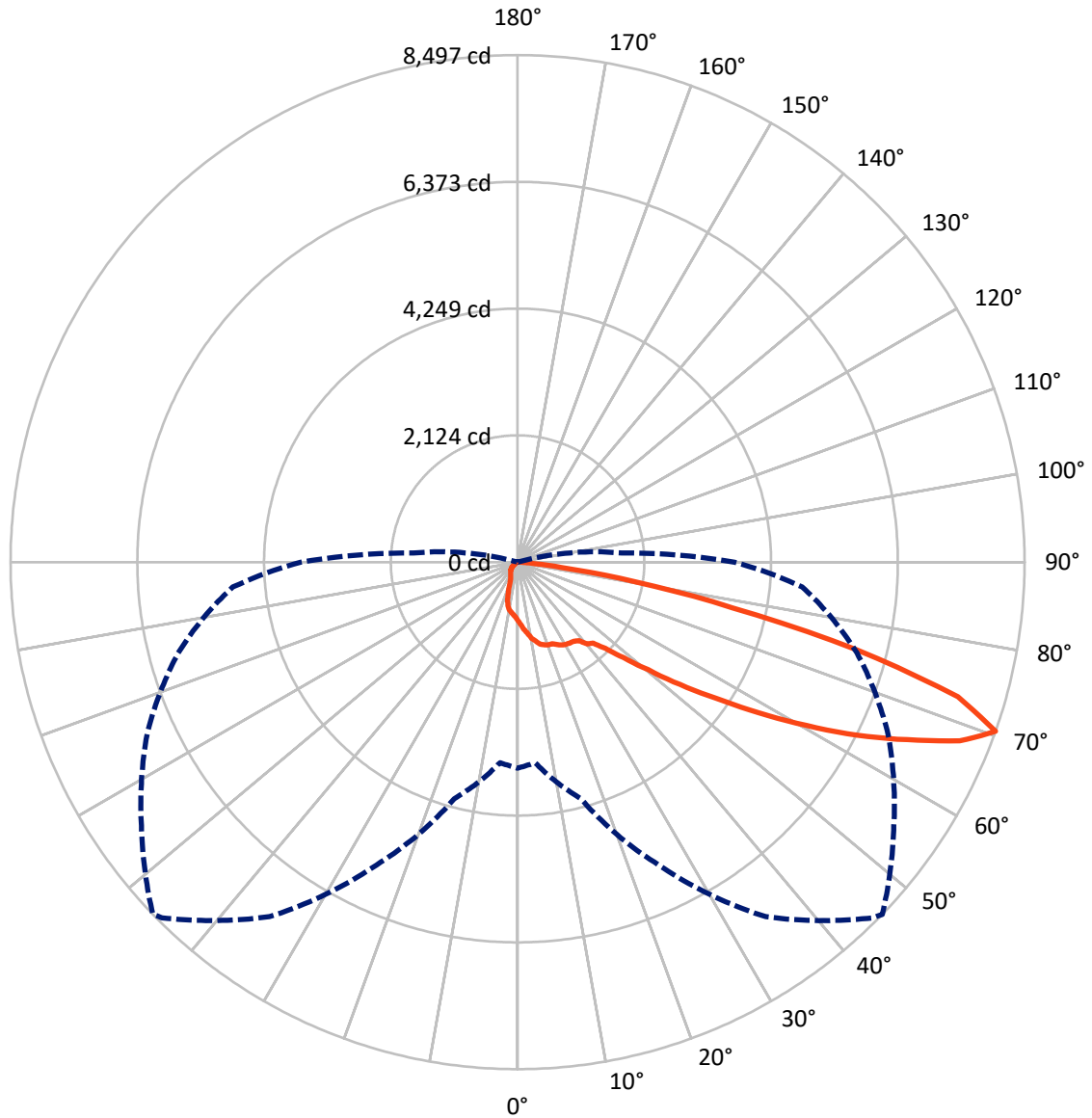
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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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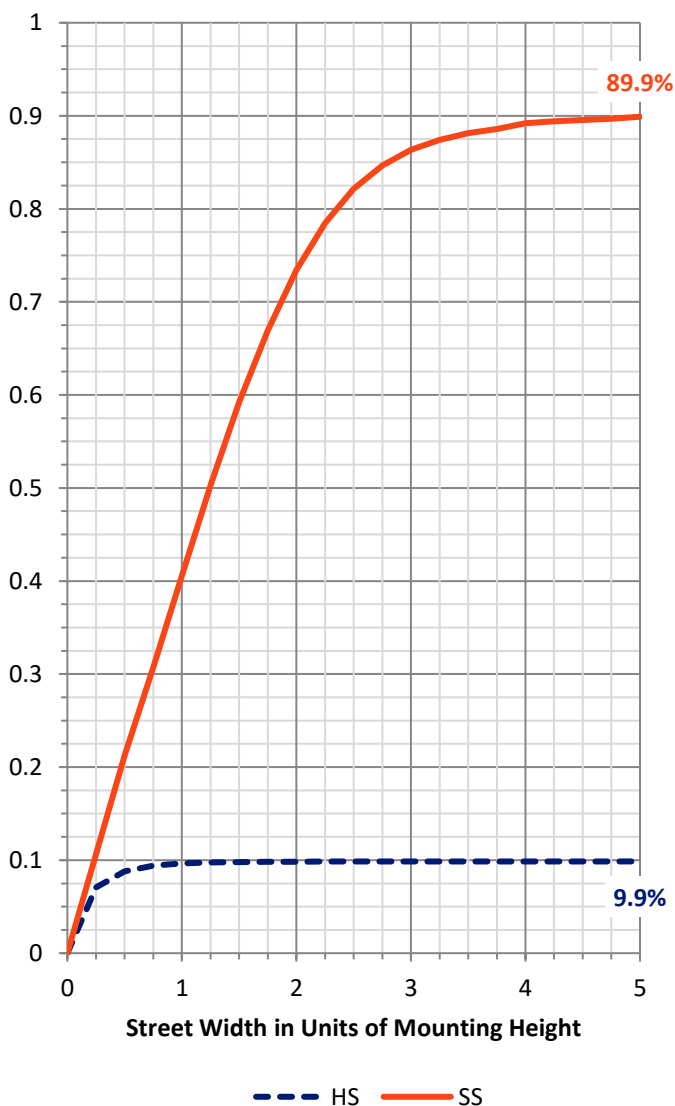
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	996.3	0.0	996.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9016.2	0.0	9016.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	10012.5	0.0	10012.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.0
10°-20°	296.0	3.0
20°-30°	474.1	4.7
30°-40°	676.7	6.8
40°-50°	1168.5	11.7
50°-60°	2237.1	22.3
60°-70°	3312.8	33.1
70°-80°	1640.8	16.4
80°-90°	108.4	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°	10012.5	100.0
0°-180°	10012.5	100.0

Coefficient of Utilization



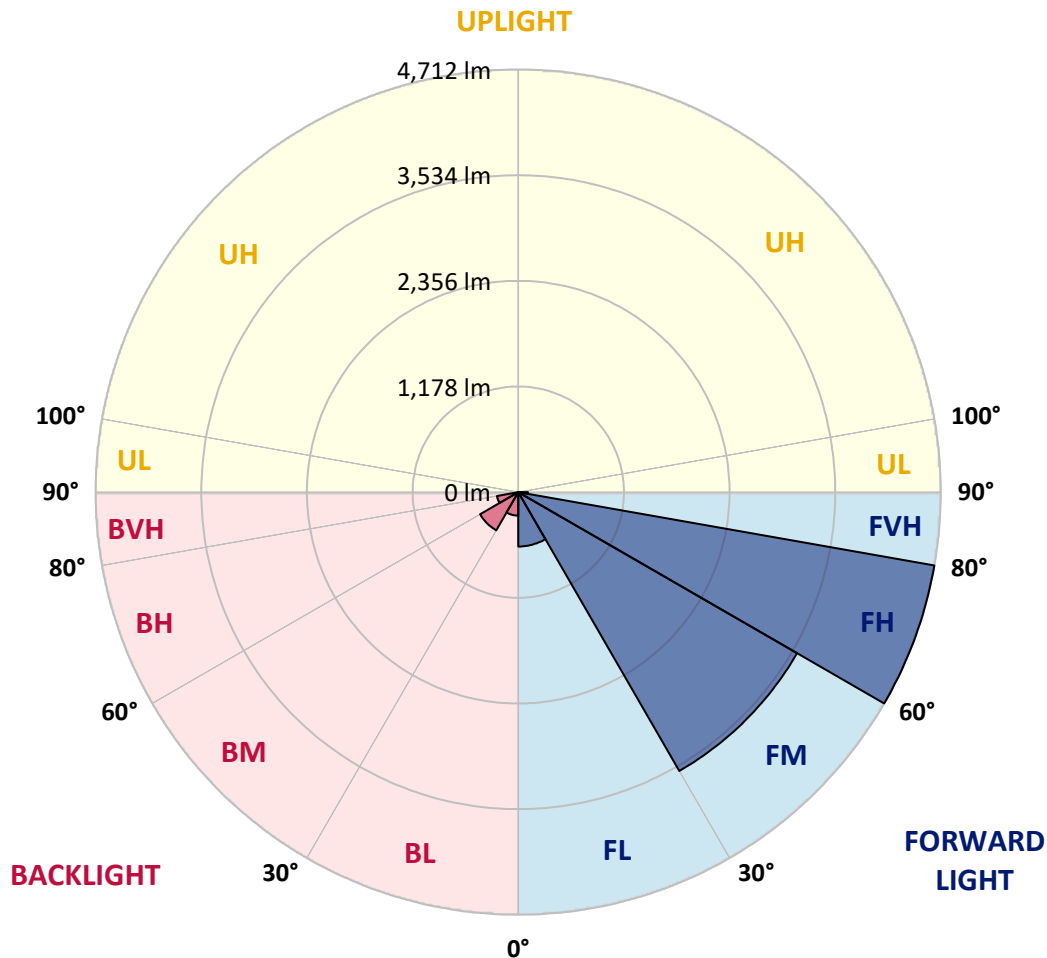
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.3	6.1			
FM (30°-60°)	3590.4	35.9			
FH (60°-80°)	4712.4	47.1			G2/5000
FVH (80°-90°)	107.0	1.1			G2/225
BL (0°-30°)	261.7	2.6	B1/500		
BM (30°-60°)	491.9	4.9	B1/1000		
BH (60°-80°)	241.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	1096.8	1089.6	1078.0	1073.7	1062.2	1056.4	1047.8	1043.4	1027.6	1011.7	1001.6
5°	1230.8	1213.5	1219.3	1202.0	1164.5	1134.2	1132.8	1099.6	1063.6	1034.8	995.9
7.5°	1366.3	1351.9	1330.2	1305.7	1263.9	1219.3	1206.3	1174.6	1124.2	1073.7	1021.8
10°	1468.6	1458.5	1439.8	1405.2	1347.5	1297.1	1298.5	1245.2	1191.9	1134.2	1063.6
12.5°	1532.0	1536.3	1509.0	1474.4	1423.9	1360.5	1359.1	1323.0	1262.5	1202.0	1118.4
15°	1595.4	1611.3	1569.5	1529.1	1464.3	1418.2	1426.8	1383.6	1324.5	1255.3	1163.1
17.5°	1605.5	1609.8	1601.2	1542.1	1494.5	1455.6	1457.1	1428.2	1383.6	1308.6	1229.4
20°	1588.2	1585.3	1575.3	1532.0	1500.3	1477.2	1478.7	1471.5	1447.0	1386.5	1278.4
22.5°	1537.8	1537.8	1524.8	1496.0	1481.6	1503.2	1485.9	1513.3	1487.3	1451.3	1362.0
25°	1497.4	1513.3	1506.1	1487.3	1493.1	1521.9	1530.6	1556.5	1552.2	1507.5	1419.6
27.5°	1540.7	1521.9	1526.3	1504.6	1526.3	1569.5	1573.8	1592.5	1591.1	1555.1	1471.5
30°	1569.5	1586.8	1553.6	1506.1	1529.1	1602.6	1599.8	1624.3	1635.8	1592.5	1520.5
32.5°	1661.7	1647.3	1619.9	1556.5	1559.4	1601.2	1614.2	1645.9	1653.1	1627.1	1568.0
35°	1850.5	1828.9	1709.3	1614.2	1599.8	1619.9	1628.6	1690.5	1703.5	1674.7	1618.5
37.5°	2141.7	2092.6	1948.5	1738.1	1673.3	1668.9	1668.9	1751.1	1800.1	1733.8	1693.4
40°	2558.2	2489.0	2333.3	1967.3	1769.8	1787.1	1804.4	1849.1	1843.3	1800.1	1791.4
42.5°	3088.5	3035.2	2866.6	2352.1	1954.3	1867.8	1853.4	1913.9	2004.7	1987.4	1981.7
45°	3531.0	3533.9	3425.8	2879.6	2272.8	2053.7	2063.8	2109.9	2262.7	2249.7	2248.3
47.5°	3853.8	3813.5	3797.6	3388.3	2736.9	2406.8	2392.4	2424.1	2623.0	2705.2	2742.6
50°	4147.8	4120.4	4083.0	3882.6	3294.6	2849.3	2834.9	2837.8	3141.9	3257.2	3349.4
52.5°	4512.5	4547.0	4423.1	4300.6	4016.7	3424.3	3408.5	3352.3	3729.9	3888.4	3997.9
55°	4962.1	4897.3	4757.5	4820.9	4707.0	4045.5	4016.7	3950.4	4400.0	4466.3	4581.6
57.5°	5061.6	5012.6	5156.7	5381.5	5491.0	4774.8	4763.2	4643.6	4963.6	4903.0	5228.7
60°	5309.5	5322.4	5522.8	5969.5	6159.8	5616.4	5560.2	5349.8	5509.8	5521.3	5868.6
62.5°	5564.5	5534.3	5982.5	6412.0	6704.6	6413.4	6394.7	5976.7	6158.3	6011.3	6471.1
65°	5377.2	5423.3	6064.6	6783.8	7410.7	7193.1	7177.3	6580.6	6680.0	6497.0	6716.1
67.5°	4711.3	4617.7	5515.5	6613.8	7773.9	8010.3	7993.0	7239.2	6974.1	6494.1	6207.3
70°	3453.2	3372.5	4104.6	5600.6	7253.7	8428.2	8497.4	7697.5	6854.4	5888.8	4789.2
72.5°	1692.0	1693.4	2300.2	3797.6	5738.9	7681.7	7716.3	7057.6	5888.8	4341.0	2712.4
75°	500.1	505.9	851.8	1862.1	3709.7	5834.1	5873.0	5357.0	4081.5	2242.5	925.3
77.5°	183.0	183.0	282.5	699.0	1850.5	3682.3	3679.4	3288.9	2066.7	759.5	216.2
80°	95.1	99.4	147.0	285.4	801.3	1918.3	1990.3	1609.8	785.5	320.0	63.4
82.5°	38.9	43.2	80.7	147.0	384.8	673.0	736.5	631.3	341.6	223.4	28.8
85°	11.5	13.0	38.9	82.1	151.3	168.6	187.4	211.9	214.7	172.9	13.0
87.5°	1.4	1.4	15.9	27.4	33.1	36.0	41.8	41.8	109.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	990.1	982.9	971.4	945.4	939.7	920.9	919.5	902.2	908.0	896.4	892.1
5°	982.9	967.1	935.4	915.2	895.0	882.0	873.4	866.2	864.7	859.0	856.1
7.5°	995.9	974.3	925.3	893.6	859.0	847.4	828.7	827.3	817.2	807.1	807.1
10°	1039.1	1000.2	946.9	893.6	848.9	811.4	768.2	736.5	724.9	699.0	701.9
12.5°	1073.7	1039.1	961.3	906.5	838.8	753.8	658.6	585.1	550.5	517.4	530.4
15°	1122.7	1072.3	988.7	909.4	799.9	652.9	497.2	415.1	383.4	376.2	374.7
17.5°	1176.0	1122.7	1023.3	902.2	720.6	504.4	366.1	318.5	324.3	332.9	331.5
20°	1235.1	1170.3	1049.2	877.7	595.2	366.1	299.8	298.3	307.0	320.0	322.8
22.5°	1297.1	1240.9	1080.9	804.2	443.9	294.0	288.2	288.2	294.0	309.9	307.0
25°	1366.3	1291.3	1096.8	690.3	318.5	270.9	273.8	279.6	282.5	295.4	296.9
27.5°	1419.6	1347.5	1101.1	553.4	259.4	250.8	258.0	265.2	269.5	279.6	283.9
30°	1468.6	1418.2	1078.0	412.2	237.8	233.5	236.4	246.4	255.1	263.7	263.7
32.5°	1530.6	1458.5	1024.7	292.6	224.8	217.6	216.2	220.5	230.6	240.7	240.7
35°	1594.0	1526.3	939.7	234.9	213.3	203.2	197.4	193.1	197.4	204.7	210.4
37.5°	1686.2	1628.6	833.0	216.2	204.7	190.2	178.7	168.6	161.4	160.0	164.3
40°	1817.4	1743.9	696.1	203.2	194.6	177.3	160.0	142.7	126.8	116.7	118.2
42.5°	2016.3	1913.9	547.7	196.0	187.4	162.9	138.4	113.9	93.7	83.6	83.6
45°	2300.2	2138.8	402.1	188.8	178.7	145.6	113.9	85.0	64.9	59.1	60.5
47.5°	2728.2	2409.7	288.2	177.3	167.2	126.8	89.4	60.5	47.6	44.7	46.1
50°	3287.4	2731.1	224.8	164.3	152.8	106.7	66.3	44.7	37.5	36.0	37.5
52.5°	3874.0	3055.4	197.4	152.8	131.2	85.0	49.0	36.0	31.7	30.3	31.7
55°	4375.5	3264.4	171.5	135.5	105.2	63.4	38.9	31.7	27.4	23.1	23.1
57.5°	4882.8	3369.6	135.5	112.4	77.8	47.6	33.1	27.4	23.1	18.7	17.3
60°	5295.0	3444.5	96.6	83.6	54.8	37.5	28.8	24.5	18.7	14.4	13.0
62.5°	5566.0	3229.8	70.6	63.4	40.4	31.7	24.5	20.2	14.4	10.1	10.1
65°	5432.0	2932.9	54.8	44.7	30.3	24.5	20.2	14.4	10.1	5.8	4.3
67.5°	4874.2	2389.5	44.7	33.1	23.1	18.7	15.9	11.5	5.8	1.4	1.4
70°	3636.2	1751.1	36.0	24.5	18.7	14.4	11.5	7.2	2.9	1.4	0.0
72.5°	1988.9	958.4	28.8	20.2	14.4	11.5	8.6	5.8	2.9	0.0	0.0
75°	657.2	255.1	21.6	14.4	8.6	7.2	5.8	4.3	1.4	0.0	0.0
77.5°	158.5	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	8.6	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)