

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: P483363

Luminaire Tested: **IFLD-M-SA4A-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483363
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-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

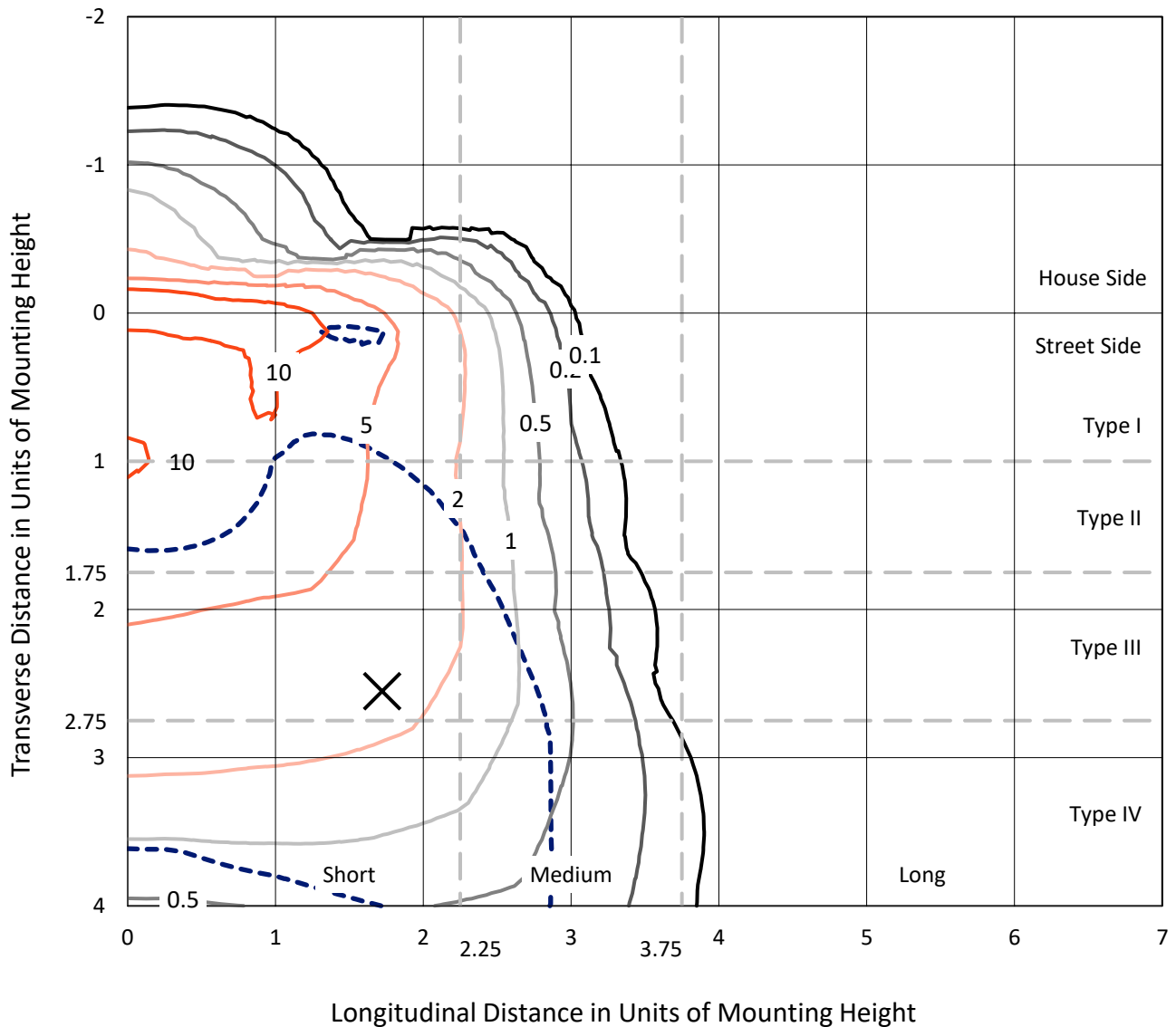
Lumens per Lamp: N/A
Luminaire Lumens: 9816.2 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

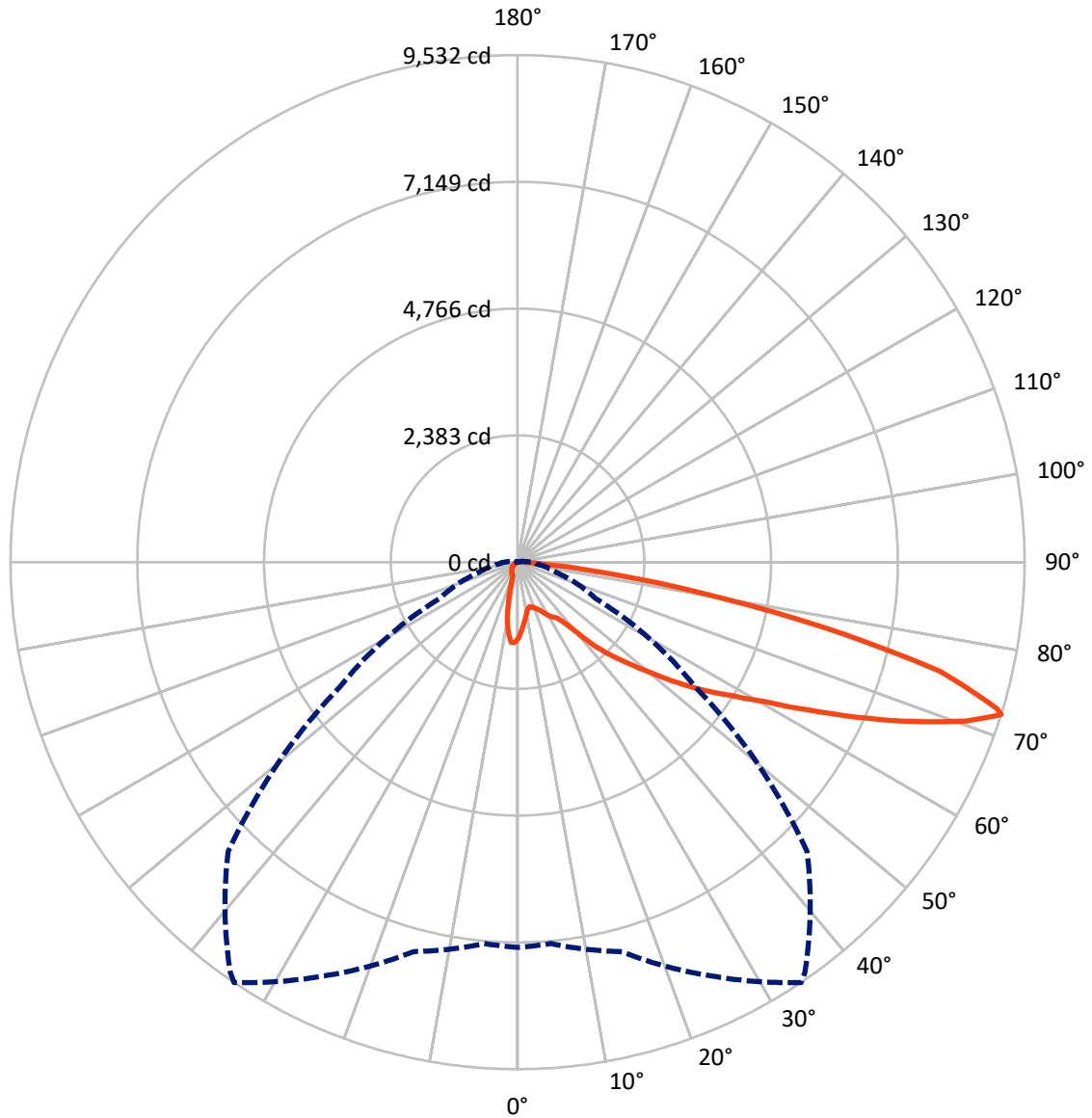
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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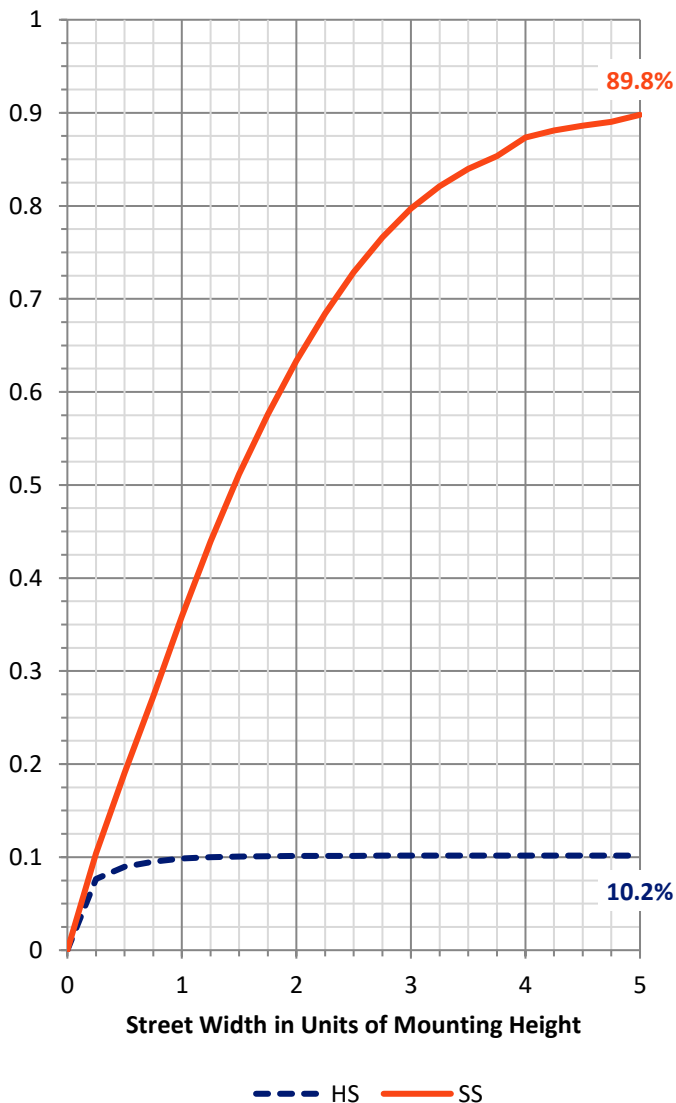
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1004.9	0.0	1004.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8811.2	0.0	8811.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	9816.2	0.0	9816.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.3
10°-20°	282.2	2.9
20°-30°	426.0	4.3
30°-40°	691.3	7.0
40°-50°	1300.0	13.2
50°-60°	2125.6	21.7
60°-70°	2825.7	28.8
70°-80°	1892.3	19.3
80°-90°	148.3	1.5
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°	9816.2	100.0
0°-180°	9816.2	100.0

Coefficient of Utilization



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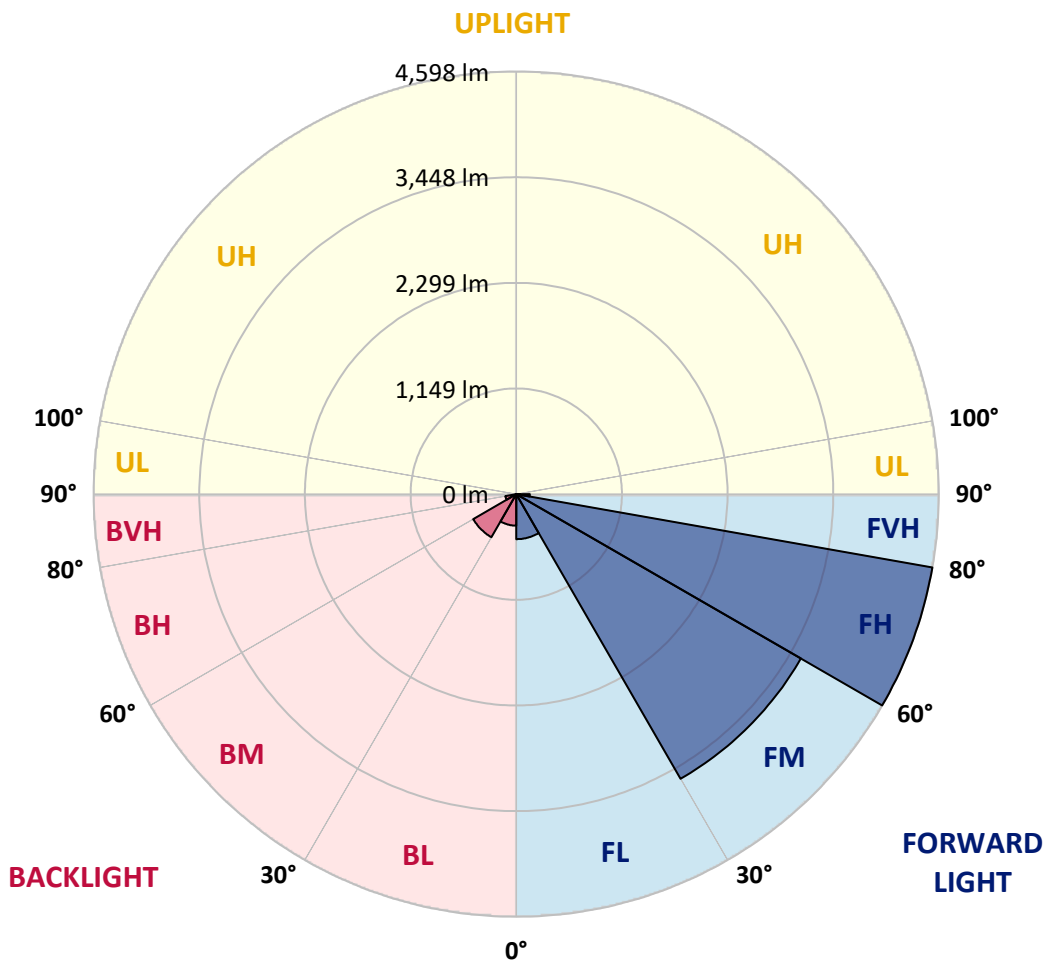
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.0	5.0			
FM (30°-60°)	3576.0	36.4			
FH (60°-80°)	4597.8	46.8			G2/5000
FVH (80°-90°)	147.4	1.5			G2/225
BL (0°-30°)	342.9	3.5	B1/500		
BM (30°-60°)	540.9	5.5	B1/1000		
BH (60°-80°)	120.2	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	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°	34°	35°	45°	55°	65°	75°	85°
0°	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1
2.5°	1270.1	1267.2	1275.8	1289.9	1304.1	1298.5	1325.4	1353.8	1373.7	1400.6	1433.3
5°	1109.7	1116.8	1125.3	1153.7	1172.2	1176.4	1226.1	1263.0	1324.0	1386.4	1444.6
7.5°	963.6	972.1	989.1	1020.3	1058.6	1068.6	1118.2	1192.0	1271.5	1353.8	1448.9
10°	857.1	865.6	884.1	904.0	955.0	955.0	1023.2	1125.3	1228.9	1325.4	1450.3
12.5°	834.4	838.7	837.3	852.9	885.5	892.6	959.3	1071.4	1192.0	1315.5	1473.0
15°	861.4	864.2	850.0	841.5	869.9	877.0	939.4	1038.8	1167.9	1321.2	1509.9
17.5°	915.3	905.4	877.0	864.2	888.3	892.6	950.8	1037.4	1165.1	1336.8	1552.5
20°	946.5	957.9	908.2	884.1	918.1	923.8	986.3	1060.1	1179.3	1363.7	1612.1
22.5°	1001.9	1007.6	940.9	925.2	957.9	957.9	1028.8	1105.5	1213.3	1407.7	1683.0
25°	1079.9	1072.8	994.8	979.2	1010.4	1023.2	1094.1	1177.8	1265.8	1448.9	1748.3
27.5°	1140.9	1145.2	1081.3	1040.2	1092.7	1101.2	1177.8	1255.9	1305.6	1482.9	1827.8
30°	1231.8	1223.3	1155.1	1108.3	1173.6	1175.0	1248.8	1329.7	1382.2	1544.0	1947.0
32.5°	1339.6	1322.6	1244.5	1177.8	1230.3	1243.1	1318.3	1436.1	1501.4	1658.9	2131.5
35°	1568.1	1526.9	1399.2	1295.6	1299.9	1305.6	1421.9	1590.8	1666.0	1805.1	2378.4
37.5°	1901.6	1884.5	1739.8	1542.5	1467.3	1450.3	1580.9	1795.1	1888.8	1998.1	2699.1
40°	2232.2	2208.1	2073.3	1924.3	1788.0	1754.0	1819.3	2066.2	2151.3	2266.3	3028.3
42.5°	2599.8	2557.2	2398.3	2277.6	2192.5	2155.6	2130.0	2406.8	2503.3	2581.3	3350.5
45°	2971.6	2902.0	2672.1	2579.9	2534.5	2514.6	2511.8	2835.3	2893.5	2909.1	3708.1
47.5°	3298.0	3222.7	3014.1	2910.5	2876.5	2870.8	3029.7	3329.2	3283.8	3242.6	4106.8
50°	3549.1	3500.9	3350.5	3313.6	3288.0	3278.1	3649.9	3837.2	3627.2	3554.8	4457.3
52.5°	3938.0	3830.1	3659.8	3672.6	3762.0	3763.4	4278.5	4319.7	3912.4	3769.1	4788.0
55°	4248.7	4177.8	4038.7	4020.3	4255.8	4281.4	4841.9	4685.8	4071.4	3973.4	4910.0
57.5°	4614.9	4582.2	4481.5	4484.3	4731.2	4785.2	5342.9	4995.2	4203.3	4105.4	4928.5
60°	5144.2	5050.5	4998.0	5022.1	5313.1	5365.6	5828.2	5218.0	4267.2	4192.0	4883.1
62.5°	5728.8	5619.6	5562.8	5686.3	6110.6	6119.1	6197.1	5415.2	4227.5	4214.7	4590.7
65°	6432.7	6324.9	6279.5	6527.8	7031.6	7000.3	6715.1	5499.0	4101.2	3986.2	3823.0
67.5°	7133.7	7068.5	6974.8	7370.7	7998.0	7998.0	7252.9	5467.7	3770.5	3200.0	2500.4
70°	7465.8	7511.2	7660.2	8281.8	8947.3	8879.2	7783.7	5108.7	2807.0	1718.5	983.4
72°	7244.4	7197.6	7582.2	8579.8	9532.0	9419.9	7694.3	4061.4	1622.0	753.5	342.0
72.5°	6864.1	6908.1	7437.4	8538.6	9422.7	9515.0	7475.7	3746.4	1333.9	600.3	258.3
75°	4209.0	4284.2	5551.5	7250.1	8210.8	8107.2	5782.8	1785.2	512.3	255.4	92.2
77.5°	1536.9	1599.3	2693.4	4562.4	5839.5	5774.3	3346.2	634.3	278.1	190.2	46.8
80°	400.2	432.8	915.3	2104.5	3434.2	3438.4	1400.6	254.0	188.7	156.1	28.4
82.5°	79.5	88.0	281.0	818.8	1605.0	1583.7	442.8	136.2	141.9	127.7	19.9
85°	9.9	12.8	59.6	278.1	519.4	465.5	109.3	68.1	105.0	99.3	12.8
87.5°	1.4	1.4	14.2	63.9	109.3	106.4	22.7	21.3	46.8	61.0	7.1
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°	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1	1436.1
2.5°	1451.7	1457.4	1477.3	1494.3	1514.2	1519.8	1511.3	1525.5	1505.6	1517.0	1519.8
5°	1454.6	1487.2	1524.1	1548.2	1542.5	1528.4	1517.0	1478.7	1451.7	1441.8	1463.1
7.5°	1474.4	1511.3	1551.1	1551.1	1519.8	1446.0	1375.1	1307.0	1250.2	1221.8	1246.0
10°	1500.0	1538.3	1579.4	1525.5	1409.2	1274.3	1173.6	1045.9	959.3	913.9	918.1
12.5°	1534.0	1588.0	1602.1	1477.3	1284.3	1084.2	901.1	723.7	641.4	576.1	577.6
15°	1578.0	1630.5	1588.0	1372.3	1125.3	830.2	610.2	441.3	376.1	342.0	342.0
17.5°	1636.2	1675.9	1583.7	1275.8	911.1	567.6	374.6	298.0	283.8	278.1	278.1
20°	1704.3	1734.1	1542.5	1125.3	676.9	364.7	275.3	266.8	268.2	265.4	265.4
22.5°	1781.0	1790.9	1495.7	950.8	458.4	269.6	256.9	258.3	259.7	256.9	258.3
25°	1861.8	1834.9	1427.6	746.4	305.1	245.5	248.3	251.2	252.6	254.0	254.0
27.5°	1952.7	1898.7	1332.5	546.3	238.4	231.3	239.8	248.3	249.8	249.8	248.3
30°	2086.1	1996.7	1240.3	370.4	210.0	215.7	229.9	239.8	246.9	246.9	245.5
32.5°	2254.9	2098.8	1111.1	252.6	194.4	197.3	208.6	228.5	244.1	245.5	241.2
35°	2489.1	2222.3	976.3	201.5	183.1	184.5	191.6	207.2	234.1	242.7	241.2
37.5°	2736.0	2362.8	808.9	181.6	174.5	173.1	177.4	190.2	214.3	235.6	237.0
40°	2998.5	2510.4	632.9	171.7	167.5	164.6	166.0	171.7	190.2	217.1	222.8
42.5°	3245.4	2643.8	475.4	161.8	160.4	157.5	157.5	158.9	168.9	187.3	190.2
45°	3512.2	2753.0	361.9	154.7	150.4	151.8	146.2	143.3	150.4	151.8	150.4
47.5°	3762.0	2862.3	289.5	146.2	141.9	141.9	134.8	129.1	129.1	116.4	114.9
50°	3996.1	2921.9	231.3	134.8	133.4	132.0	122.0	112.1	103.6	88.0	85.1
52.5°	4190.6	2919.1	178.8	120.6	124.9	120.6	105.0	90.8	78.0	63.9	61.0
55°	4248.7	2782.8	134.8	99.3	106.4	100.8	83.7	71.0	56.8	45.4	44.0
57.5°	4199.1	2575.6	102.2	76.6	82.3	76.6	63.9	52.5	39.7	31.2	28.4
60°	4033.0	2333.0	79.5	59.6	62.4	58.2	48.2	39.7	28.4	19.9	17.0
62.5°	3718.0	2029.3	61.0	46.8	45.4	45.4	36.9	29.8	19.9	11.4	9.9
65°	3051.0	1582.3	46.8	32.6	32.6	32.6	28.4	21.3	12.8	5.7	2.8
67.5°	1915.8	921.0	38.3	25.5	24.1	24.1	19.9	14.2	7.1	1.4	0.0
70°	720.9	337.7	29.8	19.9	18.4	18.4	14.2	8.5	4.3	0.0	0.0
72°	248.3	129.1	24.1	14.2	14.2	12.8	9.9	7.1	2.8	0.0	0.0
72.5°	204.3	103.6	22.7	14.2	12.8	12.8	9.9	7.1	2.8	0.0	0.0
75°	73.8	42.6	15.6	9.9	8.5	8.5	7.1	4.3	1.4	0.0	0.0
77.5°	36.9	27.0	12.8	8.5	7.1	4.3	4.3	2.8	1.4	0.0	0.0
80°	22.7	17.0	7.1	5.7	4.3	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	15.6	9.9	4.3	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	9.9	4.3	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.8	1.4	0.0	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)