

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: P483457

Luminaire Tested: **IFLD-S-SA2C-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483457
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

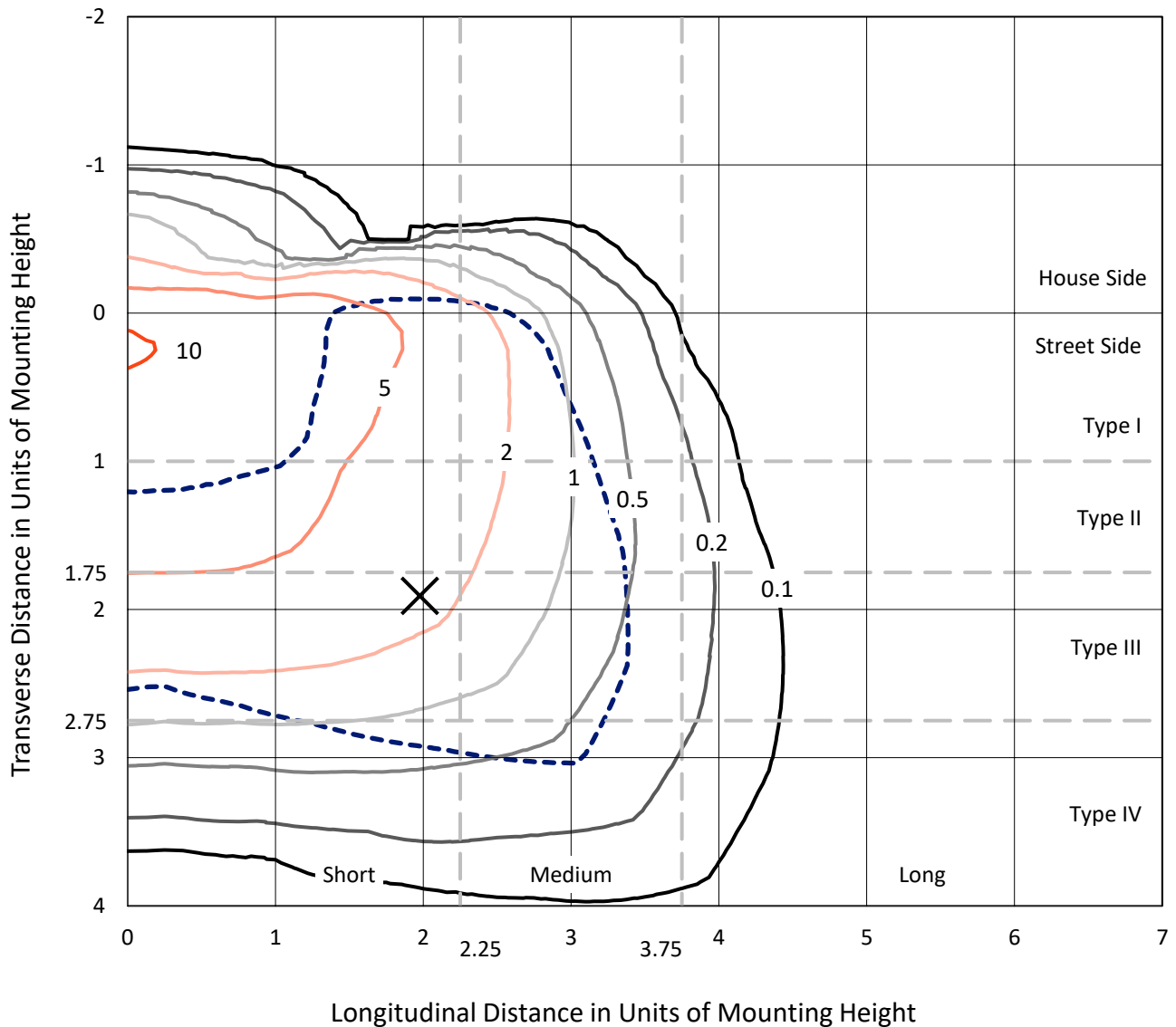
Lumens per Lamp: N/A
Luminaire Lumens: 7724.8 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

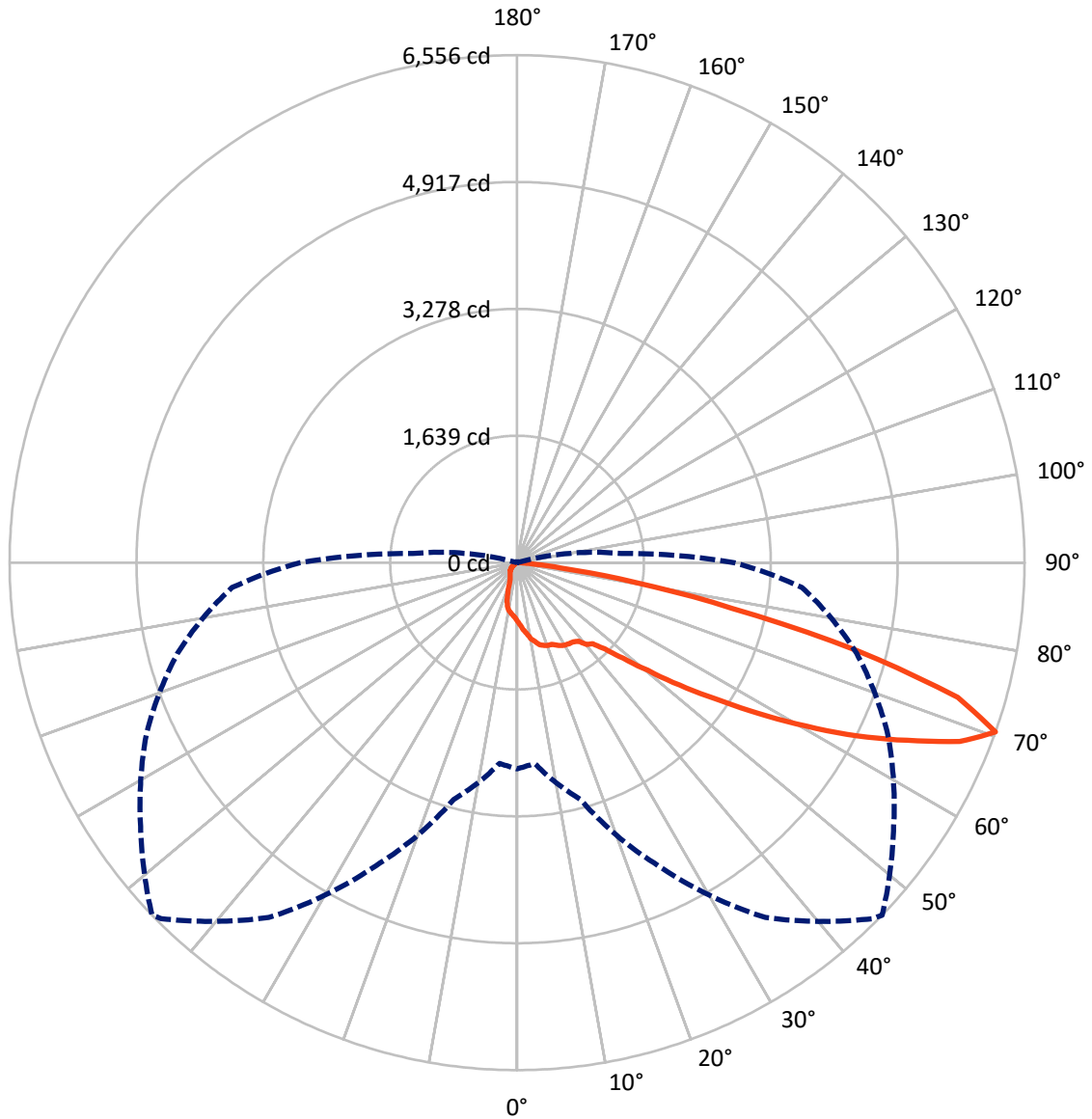
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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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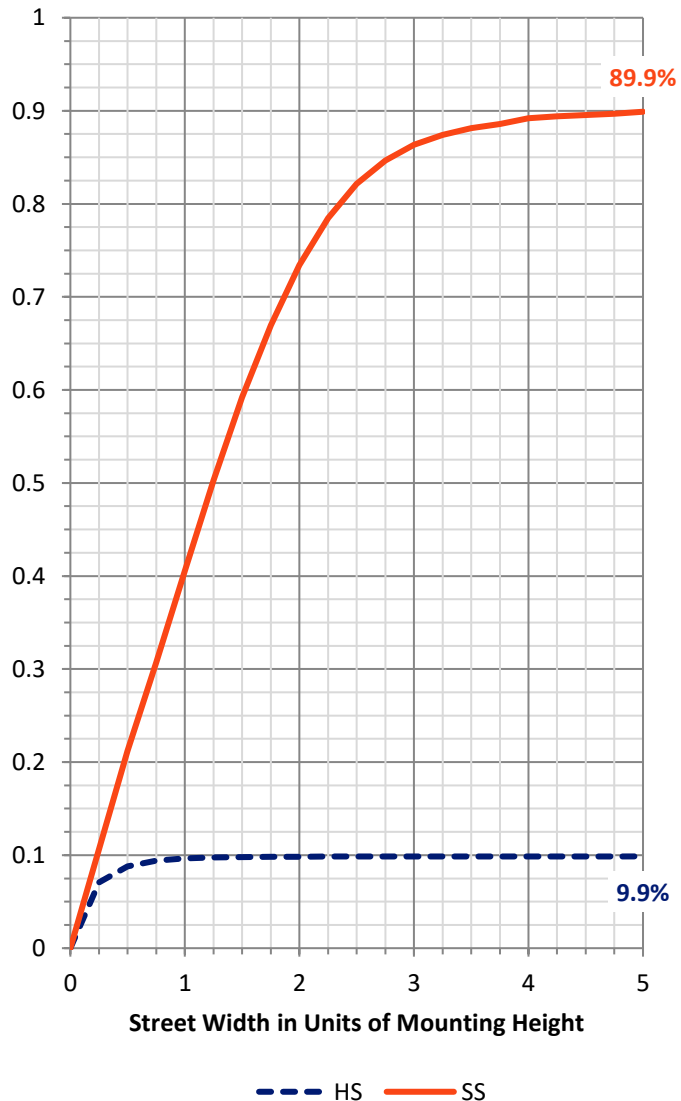
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	768.6	0.0	768.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6956.2	0.0	6956.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	7724.8	0.0	7724.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.0
10°-20°	228.4	3.0
20°-30°	365.8	4.7
30°-40°	522.1	6.8
40°-50°	901.5	11.7
50°-60°	1726.0	22.3
60°-70°	2555.9	33.1
70°-80°	1265.9	16.4
80°-90°	83.6	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°	7724.8	100.0
0°-180°	7724.8	100.0

Coefficient of Utilization



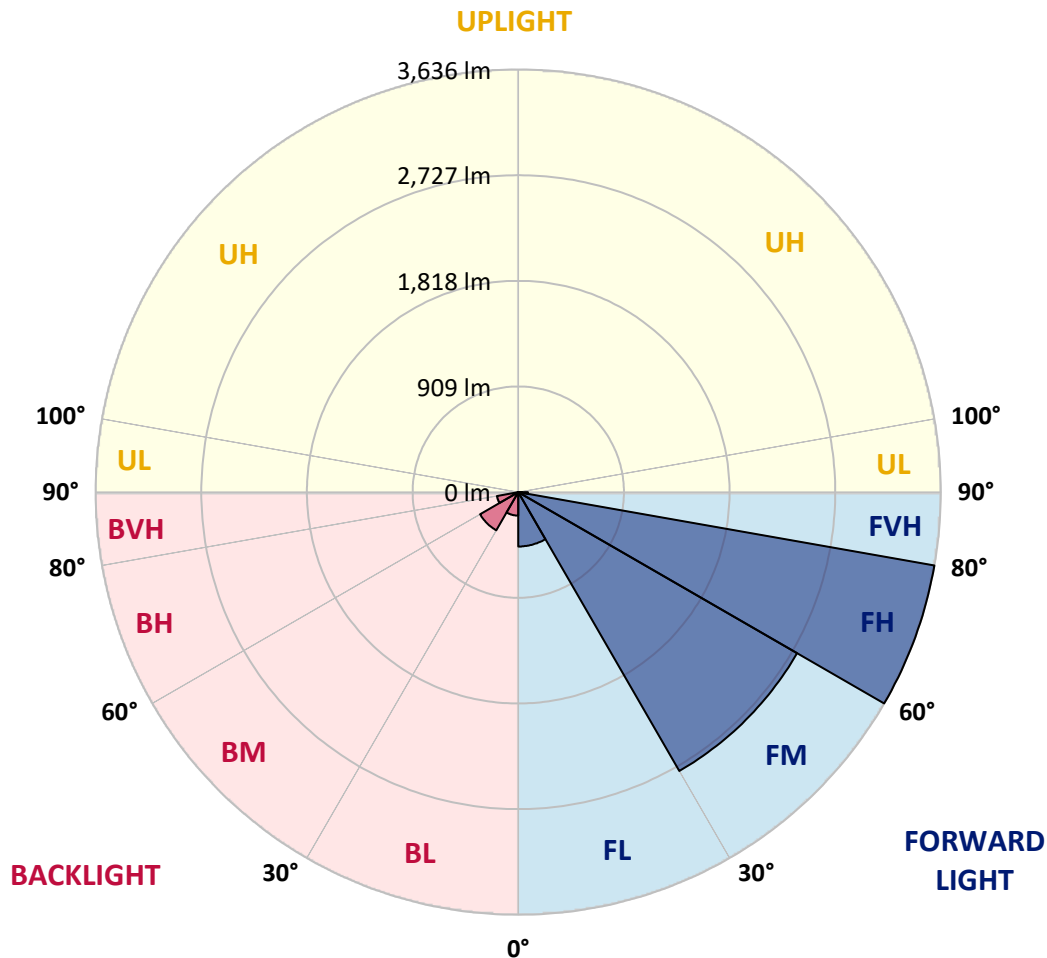
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.8	6.1			
FM (30°-60°)	2770.1	35.9			
FH (60°-80°)	3635.7	47.1			G2/5000
FVH (80°-90°)	82.6	1.1			G1/100
BL (0°-30°)	201.9	2.6	B1/500		
BM (30°-60°)	379.5	4.9	B1/1000		
BH (60°-80°)	186.2	2.4	B1/500		G1/500
BVH (80°-90°)	1.1	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°	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3
2.5°	846.2	840.6	831.7	828.4	819.5	815.0	808.4	805.0	792.8	780.6	772.8
5°	949.6	936.2	940.7	927.4	898.4	875.1	874.0	848.4	820.6	798.4	768.3
7.5°	1054.1	1043.0	1026.3	1007.4	975.2	940.7	930.7	906.2	867.3	828.4	788.4
10°	1133.1	1125.3	1110.8	1084.1	1039.7	1000.7	1001.9	960.7	919.6	875.1	820.6
12.5°	1182.0	1185.3	1164.2	1137.5	1098.6	1049.7	1048.6	1020.8	974.1	927.4	862.9
15°	1230.9	1243.1	1210.9	1179.8	1129.7	1094.1	1100.8	1067.5	1021.9	968.5	897.3
17.5°	1238.7	1242.0	1235.4	1189.8	1153.1	1123.1	1124.2	1101.9	1067.5	1009.6	948.5
20°	1225.4	1223.1	1215.3	1182.0	1157.5	1139.7	1140.8	1135.3	1116.4	1069.7	986.3
22.5°	1186.4	1186.4	1176.4	1154.2	1143.1	1159.7	1146.4	1167.5	1147.5	1119.7	1050.8
25°	1155.3	1167.5	1162.0	1147.5	1152.0	1174.2	1180.9	1200.9	1197.6	1163.1	1095.3
27.5°	1188.7	1174.2	1177.5	1160.9	1177.5	1210.9	1214.2	1228.7	1227.6	1199.8	1135.3
30°	1210.9	1224.2	1198.7	1162.0	1179.8	1236.5	1234.2	1253.1	1262.0	1228.7	1173.1
32.5°	1282.1	1270.9	1249.8	1200.9	1203.1	1235.4	1245.4	1269.8	1275.4	1255.4	1209.8
35°	1427.7	1411.0	1318.8	1245.4	1234.2	1249.8	1256.5	1304.3	1314.3	1292.1	1248.7
37.5°	1652.3	1614.5	1503.3	1341.0	1291.0	1287.6	1287.6	1351.0	1388.8	1337.7	1306.5
40°	1973.7	1920.3	1800.2	1517.8	1365.5	1378.8	1392.1	1426.6	1422.2	1388.8	1382.1
42.5°	2382.9	2341.7	2211.6	1814.7	1507.8	1441.1	1429.9	1476.6	1546.7	1533.4	1528.9
45°	2724.2	2726.5	2643.1	2221.6	1753.5	1584.5	1592.3	1627.9	1745.7	1735.7	1734.6
47.5°	2973.3	2942.2	2929.9	2614.2	2111.6	1856.9	1845.8	1870.3	2023.7	2087.1	2116.0
50°	3200.1	3179.0	3150.1	2995.5	2541.9	2198.3	2187.2	2189.4	2424.0	2513.0	2584.1
52.5°	3481.5	3508.1	3412.5	3318.0	3099.0	2642.0	2629.7	2586.4	2877.7	3000.0	3084.5
55°	3828.4	3778.3	3670.5	3719.4	3631.6	3121.2	3099.0	3047.8	3394.7	3445.9	3534.8
57.5°	3905.1	3867.3	3978.5	4152.0	4236.5	3683.8	3674.9	3582.6	3829.5	3782.8	4034.1
60°	4096.4	4106.4	4260.9	4605.6	4752.4	4333.2	4289.8	4127.5	4250.9	4259.8	4527.8
62.5°	4293.2	4269.8	4615.6	4947.0	5172.7	4948.1	4933.6	4611.2	4751.3	4637.9	4992.6
65°	4148.6	4184.2	4679.0	5233.9	5717.6	5549.7	5537.4	5077.1	5153.8	5012.6	5181.6
67.5°	3634.9	3562.6	4255.4	5102.7	5997.8	6180.1	6166.8	5585.2	5380.6	5010.4	4789.1
70°	2664.2	2601.9	3166.8	4321.0	5596.4	6502.6	6556.0	5938.8	5288.4	4543.4	3695.0
72.5°	1305.4	1306.5	1774.6	2929.9	4427.7	5926.6	5953.3	5445.1	4543.4	3349.1	2092.7
75°	385.8	390.3	657.2	1436.6	2862.1	4501.1	4531.1	4133.1	3149.0	1730.2	713.9
77.5°	141.2	141.2	217.9	539.3	1427.7	2841.0	2838.8	2537.4	1594.5	586.0	166.8
80°	73.4	76.7	113.4	220.2	618.2	1480.0	1535.6	1242.0	606.0	246.8	48.9
82.5°	30.0	33.4	62.3	113.4	296.9	519.3	568.2	487.0	263.5	172.3	22.2
85°	8.9	10.0	30.0	63.4	116.8	130.1	144.6	163.5	165.7	133.4	10.0
87.5°	1.1	1.1	12.2	21.1	25.6	27.8	32.2	32.2	84.5	93.4	5.6
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°	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3
2.5°	763.9	758.3	749.4	729.4	725.0	710.5	709.4	696.1	700.5	691.6	688.3
5°	758.3	746.1	721.6	706.1	690.5	680.5	673.8	668.3	667.2	662.7	660.5
7.5°	768.3	751.7	713.9	689.4	662.7	653.8	639.4	638.2	630.5	622.7	622.7
10°	801.7	771.7	730.5	689.4	654.9	626.0	592.7	568.2	559.3	539.3	541.5
12.5°	828.4	801.7	741.7	699.4	647.1	581.5	508.2	451.4	424.8	399.2	409.2
15°	866.2	827.3	762.8	701.6	617.1	503.7	383.6	320.2	295.8	290.2	289.1
17.5°	907.3	866.2	789.5	696.1	556.0	389.2	282.4	245.7	250.2	256.9	255.7
20°	952.9	902.9	809.5	677.2	459.2	282.4	231.3	230.2	236.8	246.8	249.1
22.5°	1000.7	957.4	833.9	620.5	342.5	226.8	222.4	222.4	226.8	239.1	236.8
25°	1054.1	996.3	846.2	532.6	245.7	209.0	211.3	215.7	217.9	227.9	229.1
27.5°	1095.3	1039.7	849.5	427.0	200.1	193.5	199.0	204.6	207.9	215.7	219.1
30°	1133.1	1094.1	831.7	318.0	183.5	180.1	182.4	190.1	196.8	203.5	203.5
32.5°	1180.9	1125.3	790.6	225.7	173.5	167.9	166.8	170.1	177.9	185.7	185.7
35°	1229.8	1177.5	725.0	181.2	164.6	156.8	152.3	149.0	152.3	157.9	162.3
37.5°	1301.0	1256.5	642.7	166.8	157.9	146.8	137.9	130.1	124.5	123.4	126.8
40°	1402.1	1345.4	537.1	156.8	150.1	136.8	123.4	110.1	97.9	90.1	91.2
42.5°	1555.6	1476.6	422.5	151.2	144.6	125.6	106.7	87.8	72.3	64.5	64.5
45°	1774.6	1650.1	310.2	145.7	137.9	112.3	87.8	65.6	50.0	45.6	46.7
47.5°	2104.9	1859.2	222.4	136.8	129.0	97.9	68.9	46.7	36.7	34.5	35.6
50°	2536.3	2107.1	173.5	126.8	117.9	82.3	51.1	34.5	28.9	27.8	28.9
52.5°	2988.9	2357.3	152.3	117.9	101.2	65.6	37.8	27.8	24.5	23.4	24.5
55°	3375.8	2518.5	132.3	104.5	81.2	48.9	30.0	24.5	21.1	17.8	17.8
57.5°	3767.2	2599.7	104.5	86.7	60.0	36.7	25.6	21.1	17.8	14.5	13.3
60°	4085.2	2657.5	74.5	64.5	42.3	28.9	22.2	18.9	14.5	11.1	10.0
62.5°	4294.3	2491.8	54.5	48.9	31.1	24.5	18.9	15.6	11.1	7.8	7.8
65°	4190.9	2262.8	42.3	34.5	23.4	18.9	15.6	11.1	7.8	4.4	3.3
67.5°	3760.6	1843.6	34.5	25.6	17.8	14.5	12.2	8.9	4.4	1.1	1.1
70°	2805.4	1351.0	27.8	18.9	14.5	11.1	8.9	5.6	2.2	1.1	0.0
72.5°	1534.5	739.4	22.2	15.6	11.1	8.9	6.7	4.4	2.2	0.0	0.0
75°	507.0	196.8	16.7	11.1	6.7	5.6	4.4	3.3	1.1	0.0	0.0
77.5°	122.3	51.1	13.3	10.0	5.6	3.3	2.2	1.1	1.1	0.0	0.0
80°	37.8	21.1	10.0	6.7	4.4	3.3	1.1	0.0	0.0	0.0	0.0
82.5°	15.6	10.0	4.4	4.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0
85°	7.8	5.6	3.3	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.2	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)