

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: P483341

Luminaire Tested: **IFLD-S-SA2D-827-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483341
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

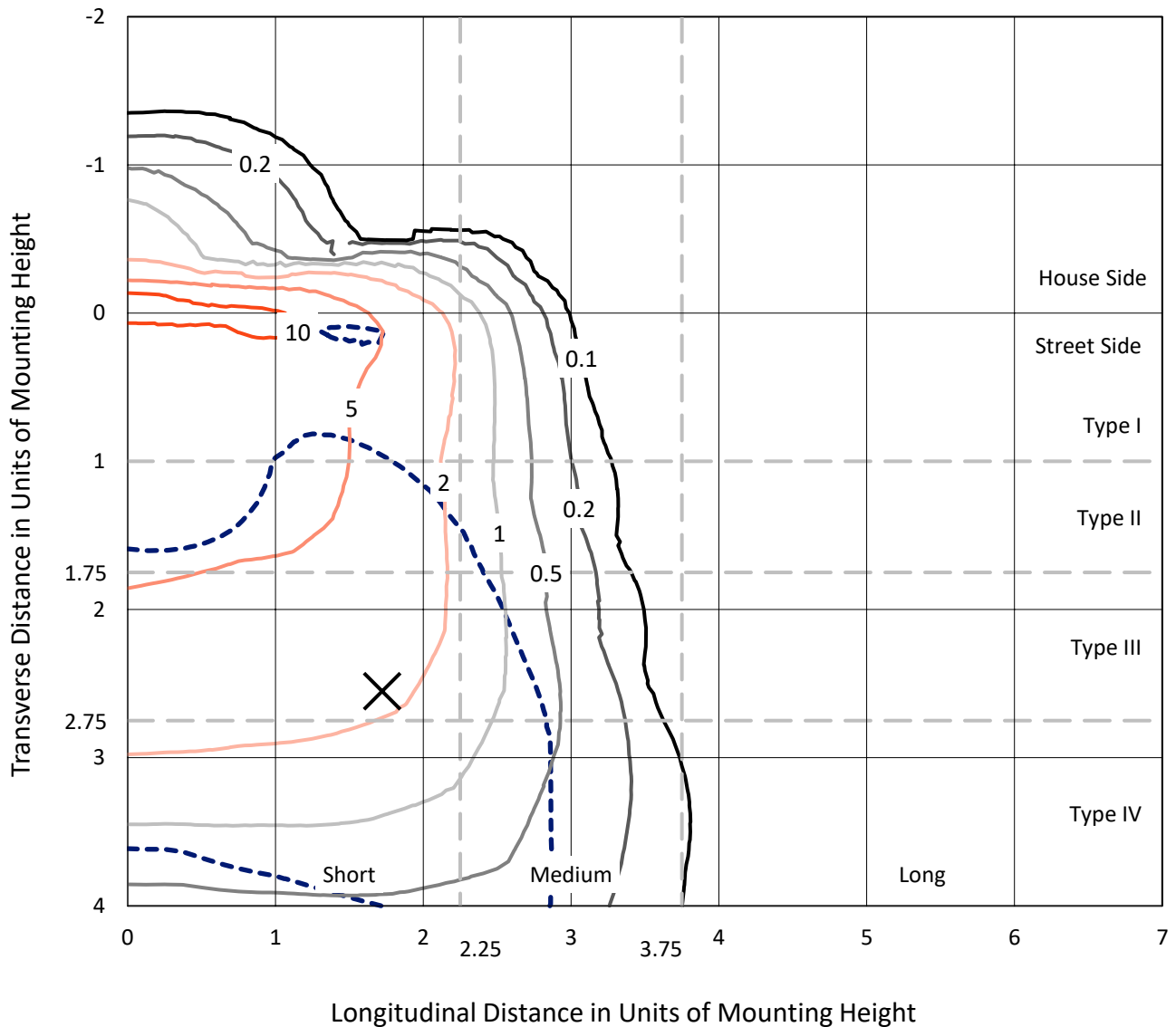
Lumens per Lamp: N/A
Luminaire Lumens: 8313 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

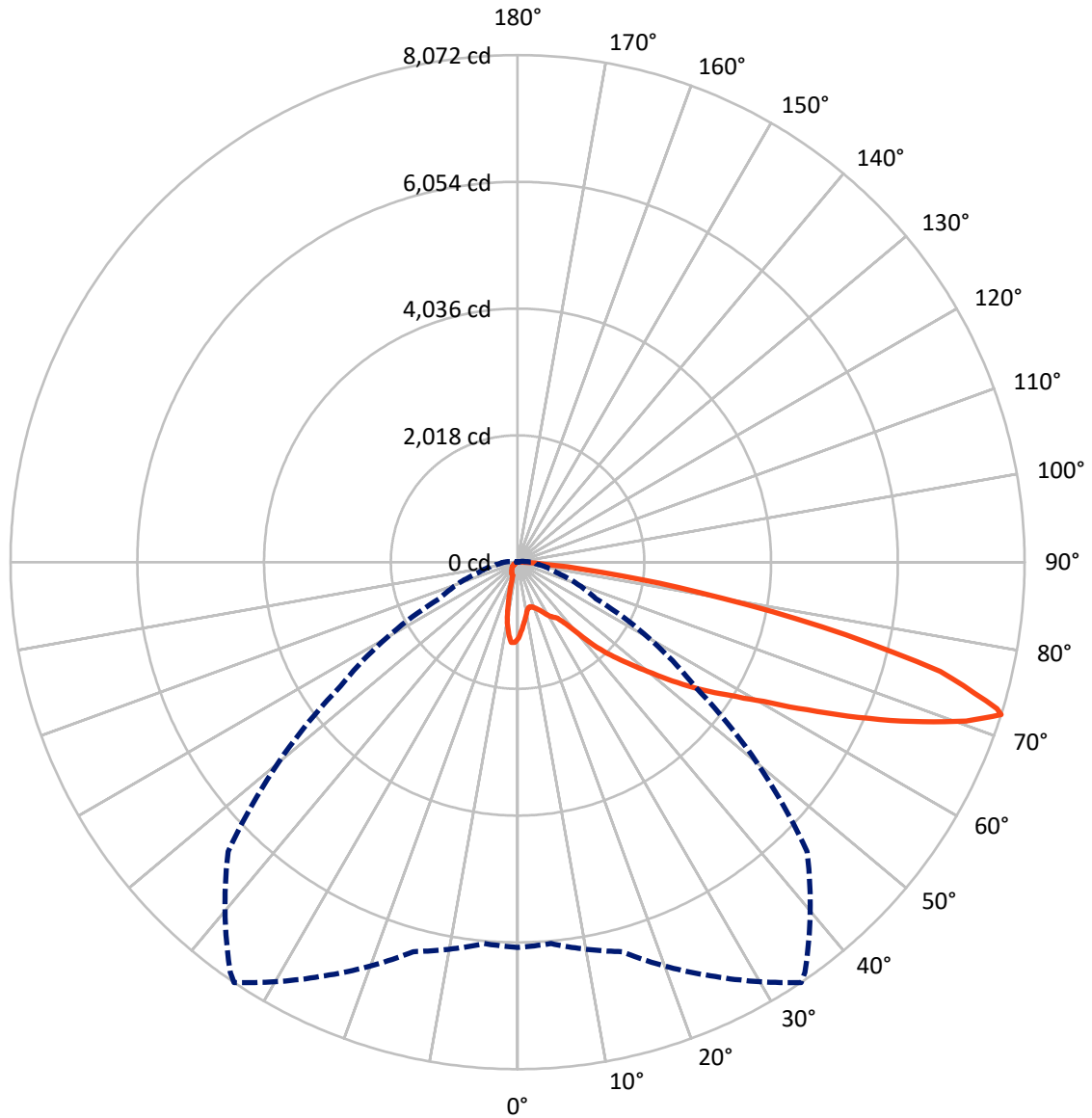
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 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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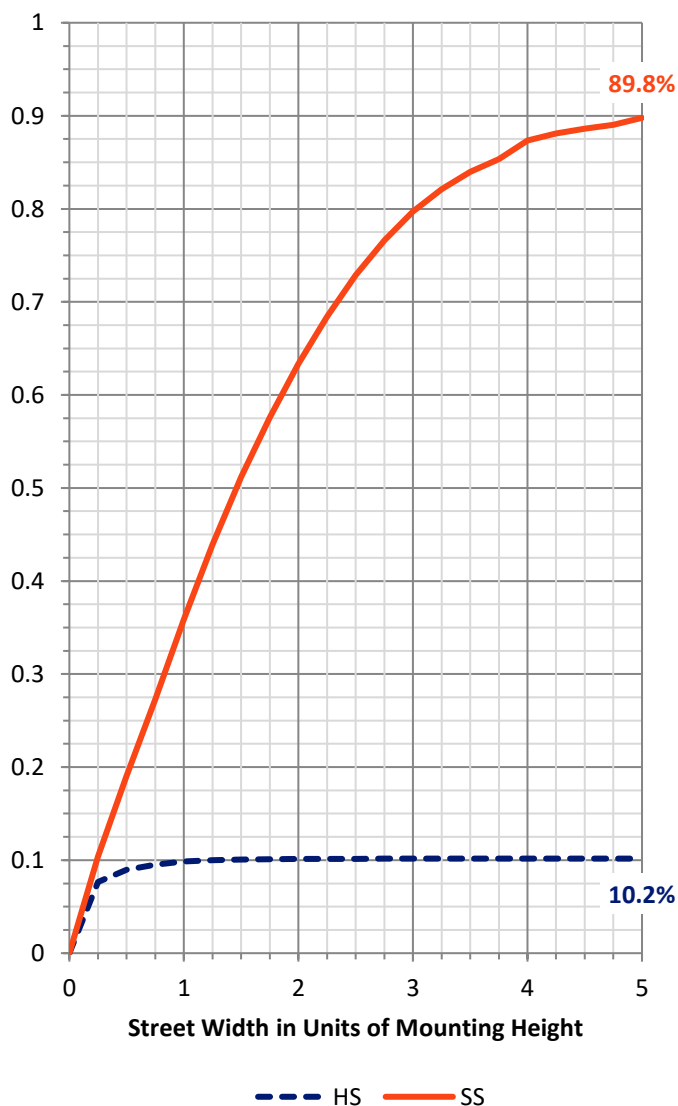
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	851.1	0.0	851.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7462.0	0.0	7462.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	8313.0	0.0	8313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	1.3
10°-20°	239.0	2.9
20°-30°	360.8	4.3
30°-40°	585.5	7.0
40°-50°	1101.0	13.2
50°-60°	1800.1	21.7
60°-70°	2393.0	28.8
70°-80°	1602.5	19.3
80°-90°	125.6	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°	8313.0	100.0
0°-180°	8313.0	100.0

Coefficient of Utilization



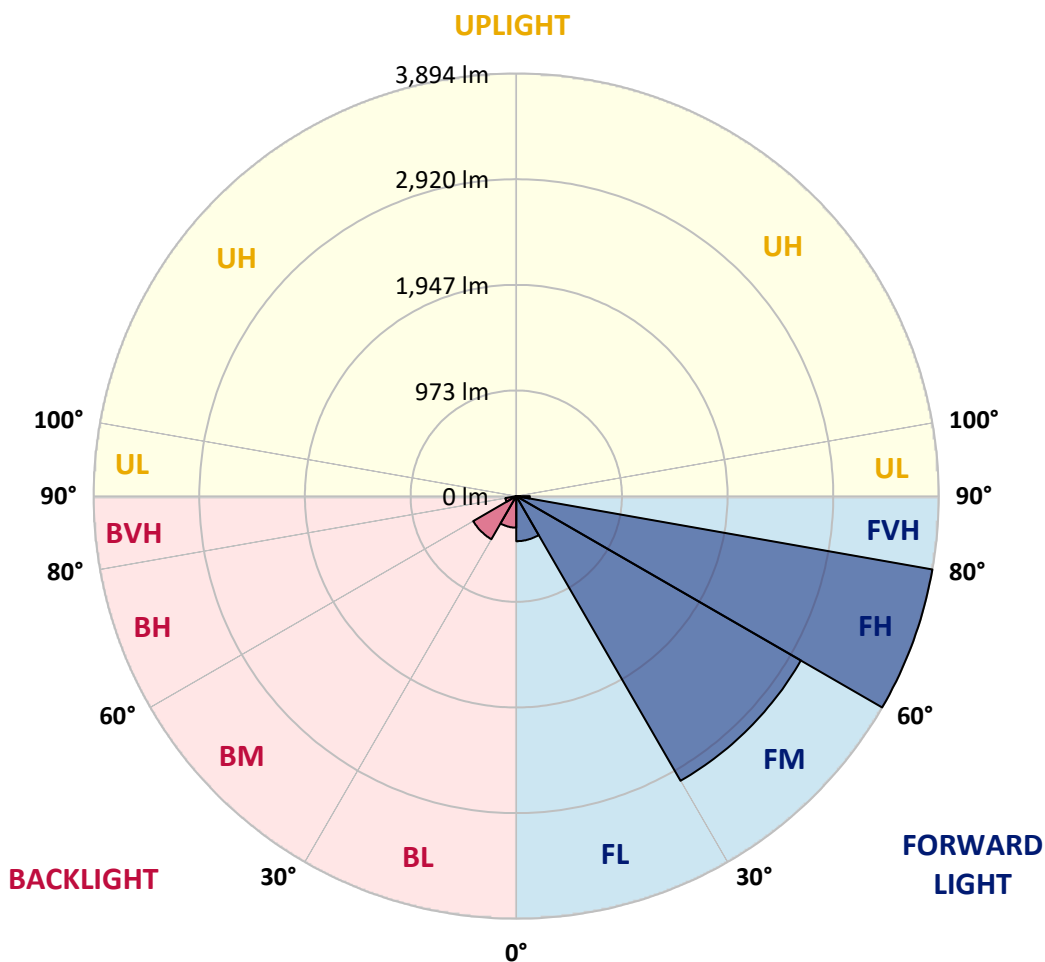
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.0	5.0			
FM (30°-60°)	3028.4	36.4			
FH (60°-80°)	3893.8	46.8			G2/5000
FVH (80°-90°)	124.8	1.5			G2/225
BL (0°-30°)	290.4	3.5	B1/500		
BM (30°-60°)	458.1	5.5	B1/1000		
BH (60°-80°)	101.8	1.2	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2
2.5°	1075.6	1073.2	1080.4	1092.4	1104.4	1099.6	1122.5	1146.5	1163.3	1186.2	1213.8
5°	939.8	945.8	953.0	977.1	992.7	996.3	1038.3	1069.6	1121.3	1174.1	1223.4
7.5°	816.0	823.2	837.6	864.1	896.5	904.9	947.0	1009.5	1076.8	1146.5	1227.0
10°	725.9	733.1	748.7	765.5	808.8	808.8	866.5	953.0	1040.7	1122.5	1228.2
12.5°	706.6	710.3	709.1	722.3	749.9	755.9	812.4	907.3	1009.5	1114.1	1247.5
15°	729.5	731.9	719.9	712.7	736.7	742.7	795.6	879.7	989.1	1118.9	1278.7
17.5°	775.2	766.7	742.7	731.9	752.3	755.9	805.2	878.5	986.7	1132.1	1314.8
20°	801.6	811.2	769.1	748.7	777.6	782.4	835.2	897.7	998.7	1154.9	1365.2
22.5°	848.5	853.3	796.8	783.6	811.2	811.2	871.3	936.2	1027.5	1192.2	1425.3
25°	914.6	908.5	842.5	829.2	855.7	866.5	926.6	997.5	1072.0	1227.0	1480.6
27.5°	966.2	969.8	915.8	880.9	925.4	932.6	997.5	1063.6	1105.6	1255.9	1547.9
30°	1043.1	1035.9	978.3	938.6	993.9	995.1	1057.6	1126.1	1170.5	1307.5	1648.8
32.5°	1134.5	1120.1	1054.0	997.5	1041.9	1052.8	1116.5	1216.2	1271.5	1404.9	1805.1
35°	1328.0	1293.1	1185.0	1097.2	1100.8	1105.6	1204.2	1347.2	1410.9	1528.7	2014.2
37.5°	1610.4	1596.0	1473.4	1306.3	1242.6	1228.2	1338.8	1520.3	1599.6	1692.1	2285.8
40°	1890.4	1870.0	1755.8	1629.6	1514.2	1485.4	1540.7	1749.8	1821.9	1919.3	2564.6
42.5°	2201.7	2165.6	2031.0	1928.9	1856.8	1825.5	1803.9	2038.2	2119.9	2186.0	2837.4
45°	2516.5	2457.7	2263.0	2184.8	2146.4	2129.6	2127.2	2401.2	2450.4	2463.7	3140.3
47.5°	2792.9	2729.3	2552.6	2464.9	2436.0	2431.2	2565.8	2819.4	2780.9	2746.1	3478.0
50°	3005.7	2964.8	2837.4	2806.2	2784.5	2776.1	3091.0	3249.6	3071.8	3010.5	3774.8
52.5°	3335.0	3243.6	3099.4	3110.2	3185.9	3187.1	3623.4	3658.2	3313.3	3191.9	4054.8
55°	3598.1	3538.1	3420.3	3404.7	3604.2	3625.8	4100.5	3968.3	3447.9	3365.0	4158.2
57.5°	3908.2	3880.6	3795.2	3797.6	4006.8	4052.4	4524.7	4230.3	3559.7	3476.8	4173.8
60°	4356.5	4277.2	4232.7	4253.1	4499.5	4544.0	4935.7	4419.0	3613.8	3550.1	4135.3
62.5°	4851.6	4759.1	4711.0	4815.6	5174.9	5182.1	5248.2	4586.0	3580.1	3569.3	3887.8
65°	5447.7	5356.4	5317.9	5528.2	5954.8	5928.4	5686.8	4656.9	3473.2	3375.8	3237.6
67.5°	6041.4	5986.1	5906.8	6242.1	6773.3	6773.3	6142.3	4630.5	3193.1	2710.0	2117.5
70°	6322.6	6361.1	6487.2	7013.6	7577.3	7519.6	6591.8	4326.4	2377.1	1455.4	832.8
72°	6135.1	6095.5	6421.1	7266.0	8072.4	7977.5	6516.1	3439.5	1373.6	638.1	289.6
72.5°	5813.0	5850.3	6298.6	7231.1	7979.9	8058.0	6331.0	3172.7	1129.7	508.4	218.7
75°	3564.5	3628.2	4701.4	6139.9	6953.5	6865.8	4897.3	1511.8	433.8	216.3	78.1
77.5°	1301.5	1354.4	2281.0	3863.7	4945.3	4890.1	2833.8	537.2	235.5	161.0	39.7
80°	338.9	366.5	775.2	1782.2	2908.3	2911.9	1186.2	215.1	159.8	132.2	24.0
82.5°	67.3	74.5	238.0	693.4	1359.2	1341.2	375.0	115.4	120.2	108.2	16.8
85°	8.4	10.8	50.5	235.5	439.9	394.2	92.5	57.7	88.9	84.1	10.8
87.5°	1.2	1.2	12.0	54.1	92.5	90.1	19.2	18.0	39.7	51.7	6.0
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°	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2	1216.2
2.5°	1229.4	1234.2	1251.1	1265.5	1282.3	1287.1	1279.9	1291.9	1275.1	1284.7	1287.1
5°	1231.8	1259.5	1290.7	1311.1	1306.3	1294.3	1284.7	1252.3	1229.4	1221.0	1239.0
7.5°	1248.7	1279.9	1313.6	1313.6	1287.1	1224.6	1164.5	1106.8	1058.8	1034.7	1055.2
10°	1270.3	1302.7	1337.6	1291.9	1193.4	1079.2	993.9	885.7	812.4	773.9	777.6
12.5°	1299.1	1344.8	1356.8	1251.1	1087.6	918.2	763.1	612.9	543.2	487.9	489.1
15°	1336.4	1380.9	1344.8	1162.1	953.0	703.0	516.8	373.8	318.5	289.6	289.6
17.5°	1385.7	1419.3	1341.2	1080.4	771.5	480.7	317.3	252.4	240.4	235.5	235.5
20°	1443.3	1468.6	1306.3	953.0	573.3	308.9	233.1	225.9	227.1	224.7	224.7
22.5°	1508.2	1516.7	1266.7	805.2	388.2	228.3	217.5	218.7	219.9	217.5	218.7
25°	1576.7	1553.9	1209.0	632.1	258.4	207.9	210.3	212.7	213.9	215.1	215.1
27.5°	1653.7	1608.0	1128.5	462.7	201.9	195.9	203.1	210.3	211.5	211.5	210.3
30°	1766.6	1690.9	1050.4	313.7	177.9	182.7	194.7	203.1	209.1	209.1	207.9
32.5°	1909.6	1777.4	941.0	213.9	164.6	167.0	176.7	193.5	206.7	207.9	204.3
35°	2107.9	1882.0	826.8	170.7	155.0	156.2	162.2	175.5	198.3	205.5	204.3
37.5°	2317.0	2001.0	685.0	153.8	147.8	146.6	150.2	161.0	181.5	199.5	200.7
40°	2539.4	2126.0	536.0	145.4	141.8	139.4	140.6	145.4	161.0	183.9	188.7
42.5°	2748.5	2238.9	402.6	137.0	135.8	133.4	133.4	134.6	143.0	158.6	161.0
45°	2974.4	2331.5	306.5	131.0	127.4	128.6	123.8	121.4	127.4	128.6	127.4
47.5°	3185.9	2424.0	245.2	123.8	120.2	120.2	114.2	109.4	109.4	98.5	97.3
50°	3384.2	2474.5	195.9	114.2	113.0	111.8	103.4	94.9	87.7	74.5	72.1
52.5°	3548.9	2472.1	151.4	102.2	105.8	102.2	88.9	76.9	66.1	54.1	51.7
55°	3598.1	2356.7	114.2	84.1	90.1	85.3	70.9	60.1	48.1	38.5	37.3
57.5°	3556.1	2181.2	86.5	64.9	69.7	64.9	54.1	44.5	33.6	26.4	24.0
60°	3415.5	1975.7	67.3	50.5	52.9	49.3	40.9	33.6	24.0	16.8	14.4
62.5°	3148.7	1718.6	51.7	39.7	38.5	38.5	31.2	25.2	16.8	9.6	8.4
65°	2583.8	1340.0	39.7	27.6	27.6	27.6	24.0	18.0	10.8	4.8	2.4
67.5°	1622.4	780.0	32.4	21.6	20.4	20.4	16.8	12.0	6.0	1.2	0.0
70°	610.5	286.0	25.2	16.8	15.6	15.6	12.0	7.2	3.6	0.0	0.0
72°	210.3	109.4	20.4	12.0	12.0	10.8	8.4	6.0	2.4	0.0	0.0
72.5°	173.1	87.7	19.2	12.0	10.8	10.8	8.4	6.0	2.4	0.0	0.0
75°	62.5	36.1	13.2	8.4	7.2	7.2	6.0	3.6	1.2	0.0	0.0
77.5°	31.2	22.8	10.8	7.2	6.0	3.6	3.6	2.4	1.2	0.0	0.0
80°	19.2	14.4	6.0	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	13.2	8.4	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.4	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	2.4	1.2	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)