

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: P482325

Luminaire Tested: **IFLD-S-SA2B-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482325
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

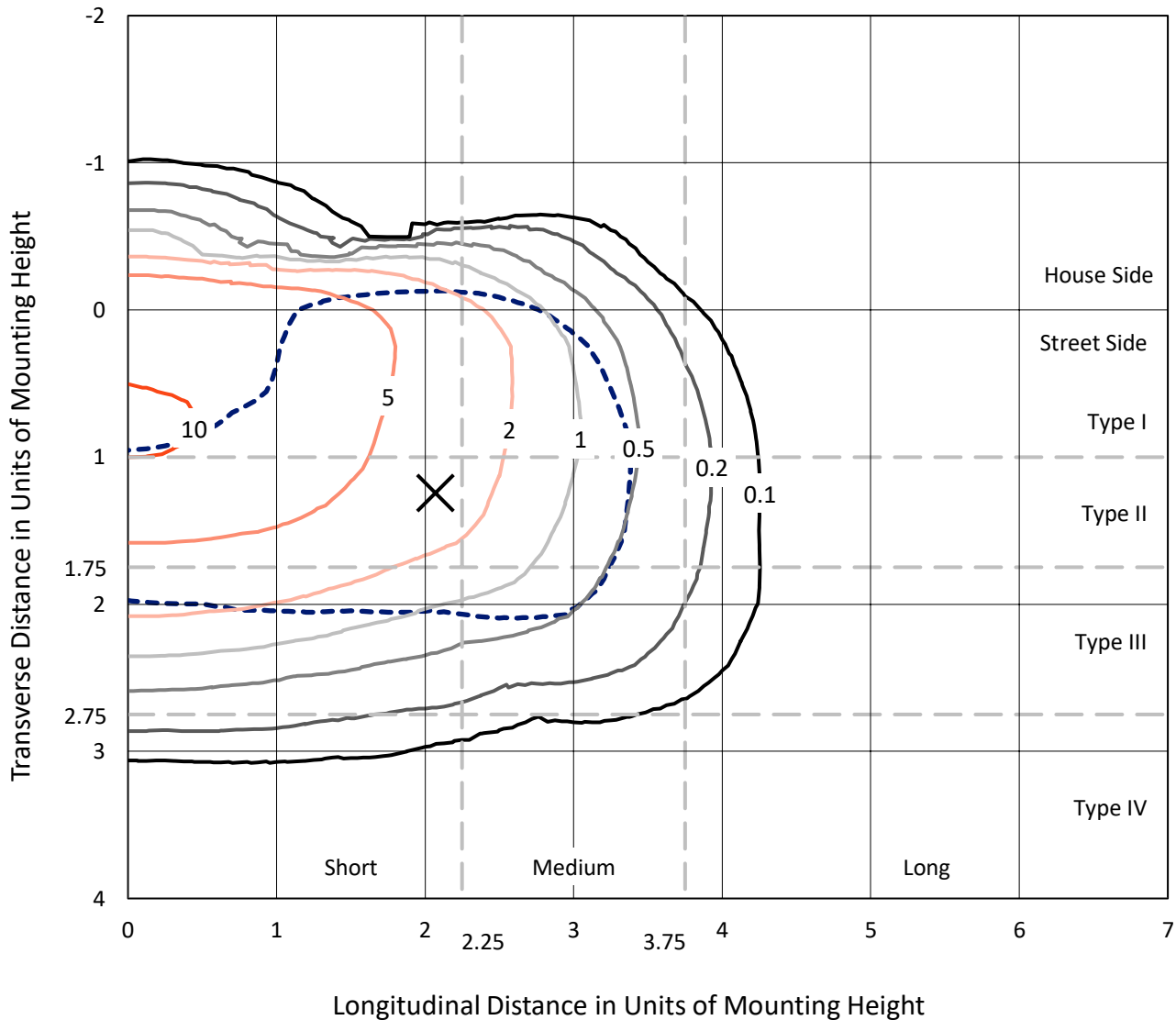
Lumens per Lamp: N/A
Luminaire Lumens: 7085.4 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (A_{in}): 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

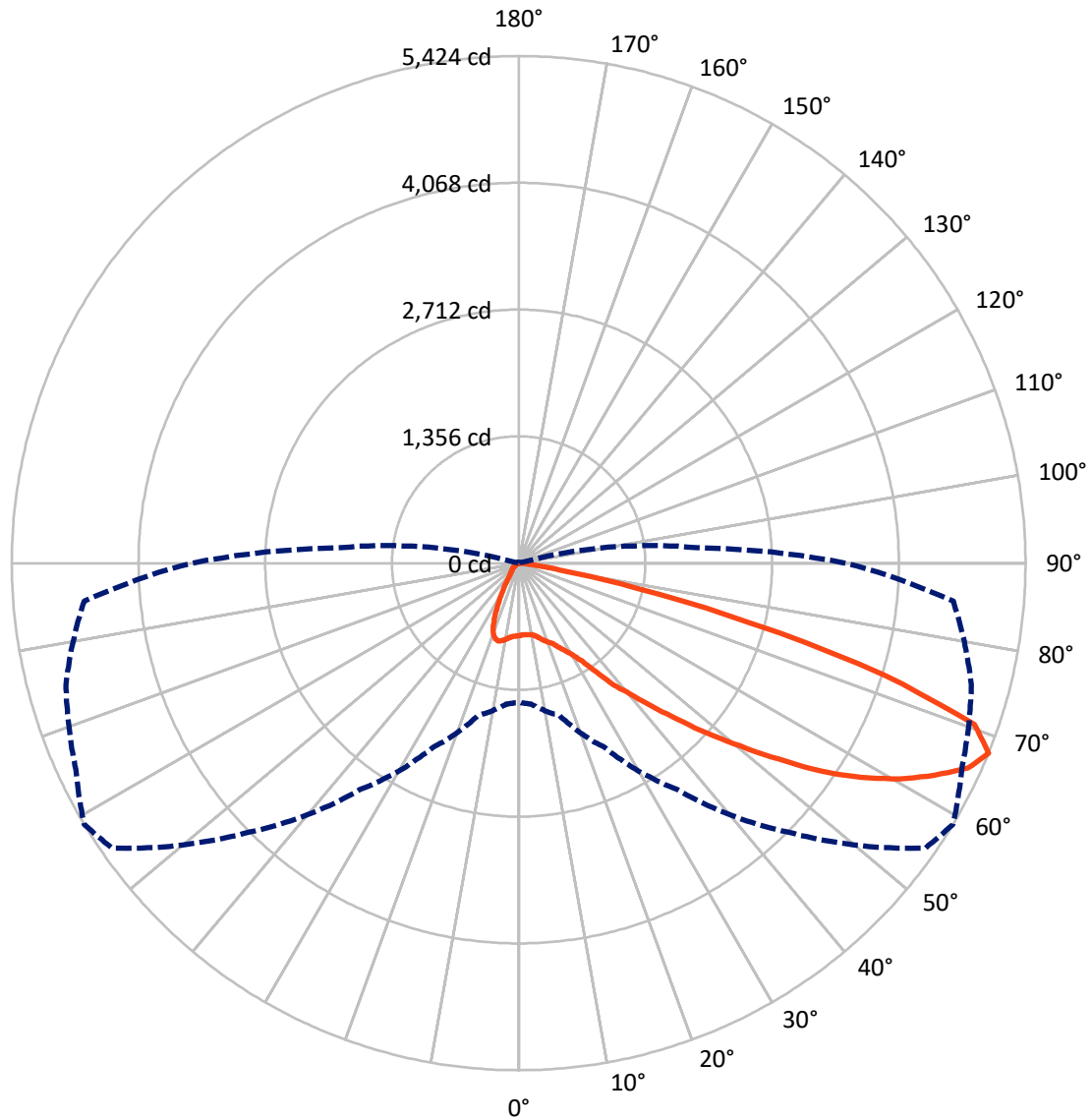
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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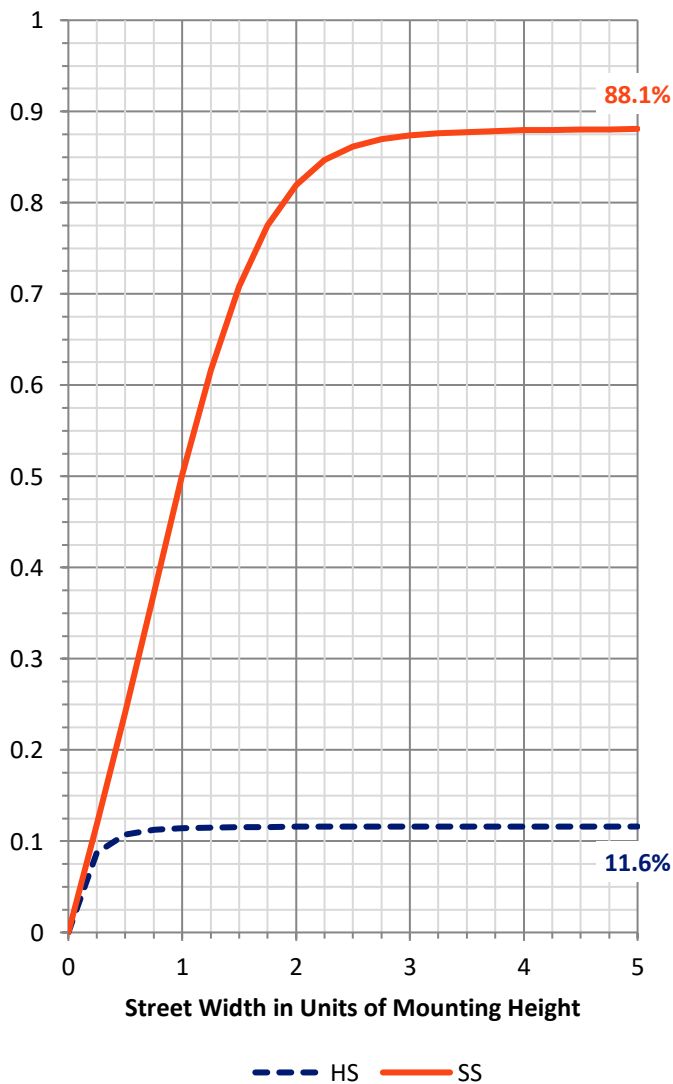
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	832.3	0.0	832.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	6253.1	0.0	6253.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	7085.4	0.0	7085.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.0
10°-20°	213.2	3.0
20°-30°	372.7	5.3
30°-40°	656.1	9.3
40°-50°	1159.9	16.4
50°-60°	1836.5	25.9
60°-70°	2037.2	28.8
70°-80°	706.8	10.0
80°-90°	29.1	0.4
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°	7085.4	100.0
0°-180°	7085.4	100.0

Coefficient of Utilization

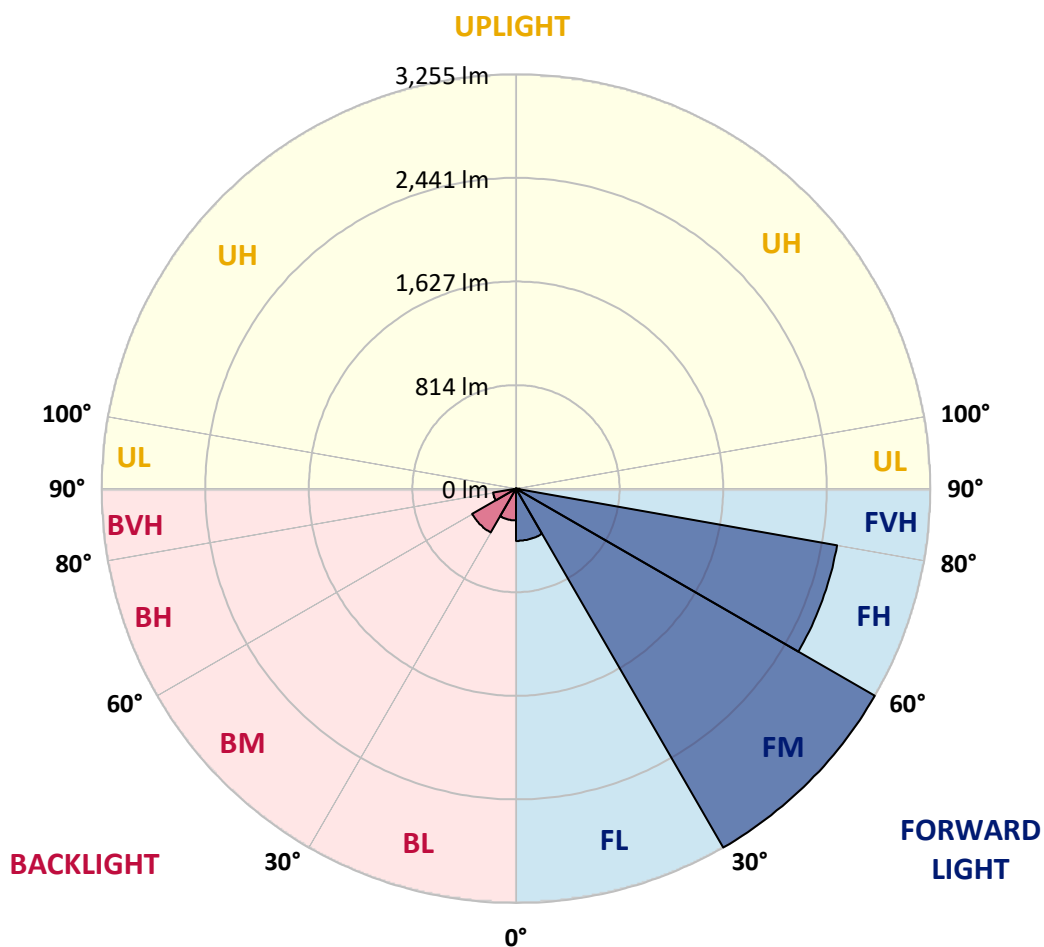


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.3	5.8			
FM (30°-60°)	3254.6	45.9			
FH (60°-80°)	2561.0	36.1			G2/5000
FVH (80°-90°)	27.2	0.4			G1/100
BL (0°-30°)	249.4	3.5	B1/500		
BM (30°-60°)	397.9	5.6	B1/1000		
BH (60°-80°)	183.0	2.6	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1
2.5°	754.6	743.9	753.6	754.6	755.6	764.4	774.2	767.3	766.4	774.2	781.1
5°	724.3	719.4	731.1	737.0	746.8	754.6	770.3	771.3	772.2	781.1	792.8
7.5°	711.6	699.8	713.5	720.4	727.2	745.8	764.4	774.2	787.9	798.7	810.4
10°	686.1	694.9	698.8	710.6	730.2	751.7	774.2	779.1	809.4	818.2	846.6
12.5°	694.9	700.8	708.6	711.6	733.1	765.4	795.7	797.7	829.0	867.2	881.9
15°	717.4	713.5	716.5	720.4	745.8	772.2	821.2	830.0	859.4	902.4	938.6
17.5°	765.4	758.5	753.6	752.7	758.5	783.0	840.8	867.2	894.6	953.3	971.9
20°	885.8	879.9	860.3	809.4	791.8	801.6	864.2	901.4	939.6	1005.2	1035.5
22.5°	1068.8	1074.7	1028.7	957.2	883.8	845.6	901.4	933.7	994.4	1077.6	1105.0
25°	1285.1	1273.4	1217.6	1134.4	1018.9	928.8	961.1	997.4	1071.7	1140.3	1151.0
27.5°	1454.4	1440.7	1397.7	1296.9	1197.0	1051.2	1039.4	1062.0	1150.0	1211.7	1200.0
30°	1621.8	1626.7	1597.3	1477.9	1354.6	1200.9	1126.6	1136.3	1203.9	1283.2	1256.7
32.5°	1835.2	1823.4	1806.8	1702.1	1556.2	1391.8	1264.6	1248.9	1278.3	1383.0	1351.7
35°	2033.9	2027.0	2004.5	1898.8	1771.6	1592.4	1468.1	1432.9	1426.1	1542.5	1487.7
37.5°	2207.1	2195.4	2161.1	2093.6	1970.2	1819.5	1683.5	1652.1	1651.2	1731.4	1625.7
40°	2352.9	2361.7	2357.8	2283.4	2215.9	2095.5	1887.1	1837.1	1833.2	1876.3	1814.6
42.5°	2541.8	2562.4	2551.6	2536.9	2455.7	2408.7	2172.8	2096.5	2062.2	2150.3	2094.5
45°	2827.6	2835.5	2842.3	2806.1	2724.9	2734.7	2468.4	2377.4	2368.6	2499.8	2374.5
47.5°	3094.8	3074.3	3122.2	3124.2	3120.3	3075.3	2787.5	2720.0	2731.7	2831.6	2702.4
50°	3161.4	3214.2	3346.4	3370.9	3434.5	3475.6	3141.8	3074.3	3093.9	3207.4	3059.6
52.5°	3213.3	3293.5	3425.7	3604.8	3776.1	3873.9	3538.2	3483.4	3482.4	3551.9	3348.3
55°	3304.3	3353.2	3467.7	3714.4	4040.3	4200.8	4015.9	3927.8	3848.5	3897.4	3647.8
57.5°	3295.5	3314.1	3492.2	3796.6	4249.8	4541.4	4408.3	4324.2	4222.4	4194.0	3992.4
60°	3140.8	3184.9	3384.6	3740.8	4379.0	4806.7	4774.4	4688.3	4513.1	4446.5	4256.6
62.5°	2834.5	2893.2	3049.8	3545.1	4191.1	4820.4	5026.9	4994.6	4798.9	4679.5	4601.2
65°	2297.2	2324.6	2504.6	3047.9	3766.3	4610.0	5325.4	5285.3	5105.2	4927.1	4778.3
67.5°	1487.7	1514.1	1687.4	2175.8	2957.8	4066.8	5313.7	5424.3	5229.5	5015.2	4667.7
70°	702.8	695.9	857.4	1208.8	1894.9	3105.6	4954.5	5172.7	5007.3	4546.3	3876.9
72.5°	214.3	232.9	356.3	535.4	972.9	1937.0	3883.7	4088.3	4036.4	3632.2	2587.8
75°	94.9	102.8	140.0	219.2	394.4	794.8	2398.9	2581.0	2558.5	2142.5	1181.4
77.5°	60.7	66.6	88.1	125.3	179.1	252.5	1105.0	1282.2	1243.0	752.7	309.3
80°	43.1	46.0	62.6	86.1	112.6	103.7	380.7	452.2	433.6	204.6	83.2
82.5°	23.5	25.4	46.0	63.6	75.4	52.9	106.7	133.1	139.0	91.0	40.1
85°	8.8	10.8	28.4	45.0	39.2	24.5	31.3	38.2	49.9	49.9	18.6
87.5°	0.0	1.0	11.7	19.6	9.8	6.9	8.8	10.8	13.7	23.5	6.9
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°	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1	777.1
2.5°	785.9	779.1	782.0	786.9	776.2	782.0	770.3	779.1	782.0	770.3	776.2
5°	795.7	802.6	798.7	790.8	784.0	785.9	783.0	776.2	782.0	784.0	780.1
7.5°	824.1	816.3	818.2	809.4	795.7	794.8	776.2	771.3	773.2	775.2	768.3
10°	850.5	855.4	845.6	838.8	816.3	801.6	776.2	748.8	745.8	734.1	743.9
12.5°	897.5	885.8	881.9	859.4	836.8	787.9	733.1	691.0	655.8	643.0	630.3
15°	936.7	934.7	927.9	893.6	841.7	752.7	648.9	551.0	483.5	441.4	435.5
17.5°	990.5	981.7	969.0	915.1	805.5	660.7	483.5	360.2	292.6	266.2	256.4
20°	1031.6	1024.8	1007.1	910.2	739.9	492.3	299.5	229.0	212.4	207.5	208.5
22.5°	1091.3	1069.8	1036.5	885.8	620.5	327.9	215.3	204.6	201.6	197.7	198.7
25°	1143.2	1123.6	1054.1	843.7	442.4	217.3	199.7	193.8	188.9	184.0	183.0
27.5°	1189.2	1164.7	1072.7	757.6	277.0	186.9	185.0	178.1	168.3	160.5	157.6
30°	1234.2	1205.8	1077.6	596.1	186.9	169.3	164.4	153.7	140.9	130.2	128.2
32.5°	1309.6	1275.3	1070.8	425.8	161.5	150.7	140.0	127.2	108.6	99.8	97.9
35°	1427.0	1375.2	1062.0	250.6	144.9	133.1	116.5	99.8	86.1	77.3	75.4
37.5°	1562.1	1472.1	1036.5	167.4	133.1	117.5	95.9	79.3	67.5	60.7	58.7
40°	1762.7	1614.0	938.6	137.0	118.4	99.8	77.3	62.6	53.8	48.9	47.0
42.5°	1983.9	1776.5	787.9	123.3	104.7	85.2	61.7	50.9	44.0	39.2	39.2
45°	2249.2	1945.8	607.8	112.6	93.0	70.5	50.9	41.1	35.2	31.3	29.4
47.5°	2544.8	2099.4	410.1	101.8	78.3	57.7	42.1	31.3	25.4	22.5	22.5
50°	2809.0	2235.5	261.3	89.1	68.5	48.0	34.3	25.4	20.6	16.6	15.7
52.5°	3048.8	2339.2	180.1	78.3	58.7	39.2	28.4	20.6	15.7	12.7	12.7
55°	3294.5	2392.1	133.1	67.5	50.9	33.3	23.5	18.6	13.7	10.8	9.8
57.5°	3496.1	2414.6	101.8	58.7	43.1	26.4	20.6	15.7	11.7	8.8	7.8
60°	3668.4	2403.8	79.3	48.9	34.3	22.5	17.6	12.7	9.8	6.9	5.9
62.5°	3769.2	2339.2	62.6	42.1	27.4	19.6	14.7	10.8	6.9	4.9	3.9
65°	3771.2	2202.2	48.9	31.3	20.6	16.6	12.7	8.8	4.9	2.0	1.0
67.5°	3501.0	1905.6	39.2	24.5	16.6	12.7	9.8	6.9	2.0	0.0	0.0
70°	2738.6	1441.7	32.3	19.6	13.7	10.8	6.9	3.9	1.0	0.0	0.0
72.5°	1745.1	863.3	26.4	15.7	11.7	7.8	4.9	2.9	0.0	0.0	0.0
75°	730.2	266.2	20.6	13.7	8.8	5.9	3.9	1.0	0.0	0.0	0.0
77.5°	187.9	84.2	16.6	11.7	8.8	4.9	2.9	1.0	0.0	0.0	0.0
80°	55.8	31.3	13.7	9.8	6.9	3.9	2.0	1.0	0.0	0.0	0.0
82.5°	25.4	18.6	11.7	8.8	5.9	3.9	2.0	0.0	0.0	0.0	0.0
85°	9.8	5.9	5.9	4.9	4.9	2.9	1.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.0	2.0	2.0	1.0	1.0	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)