

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: P483612

Luminaire Tested: **IFLD-S-SA2B-740-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483612  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-740-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

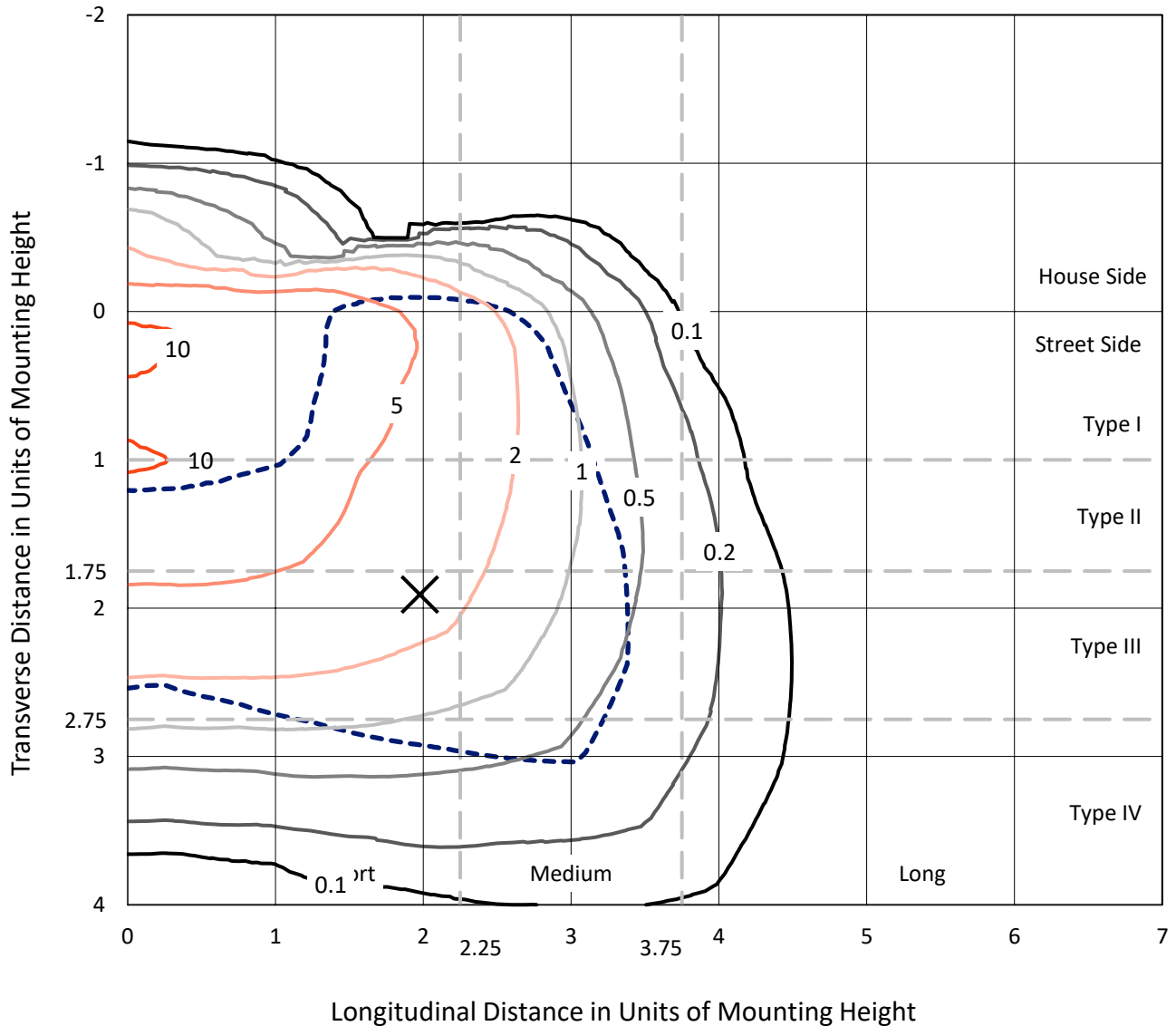
Lumens per Lamp: N/A  
Luminaire Lumens: 8424.4 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
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

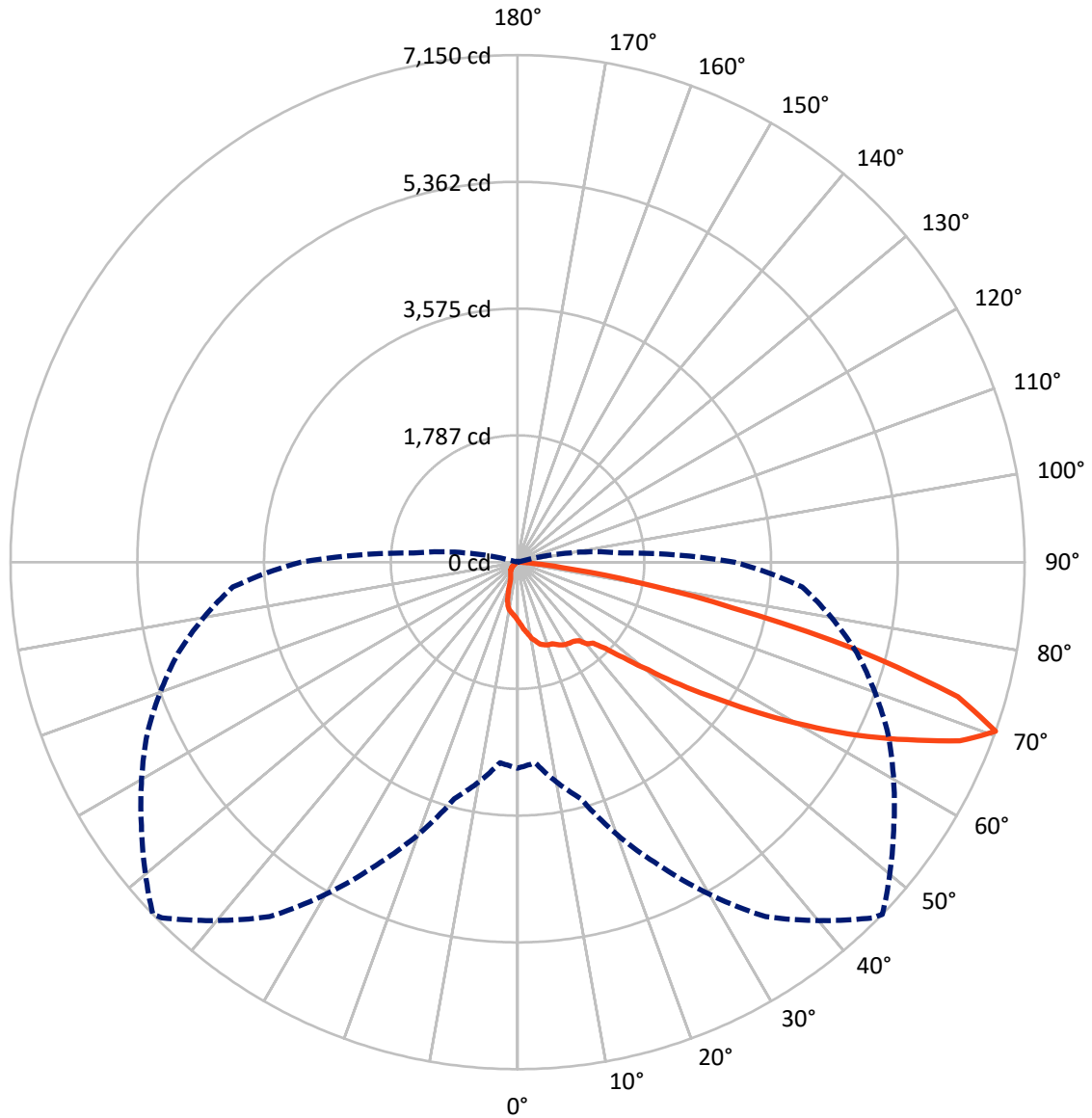
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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
<b>House Side</b>	Lumens	838.3	0.0	838.3
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	7586.2	0.0	7586.2
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	8424.4	0.0	8424.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	1.0
10°-20°	249.0	3.0
20°-30°	398.9	4.7
30°-40°	569.4	6.8
40°-50°	983.1	11.7
50°-60°	1882.3	22.3
60°-70°	2787.4	33.1
70°-80°	1380.6	16.4
80°-90°	91.2	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°	8424.4	100.0
0°-180°	8424.4	100.0

**Coefficient of Utilization**



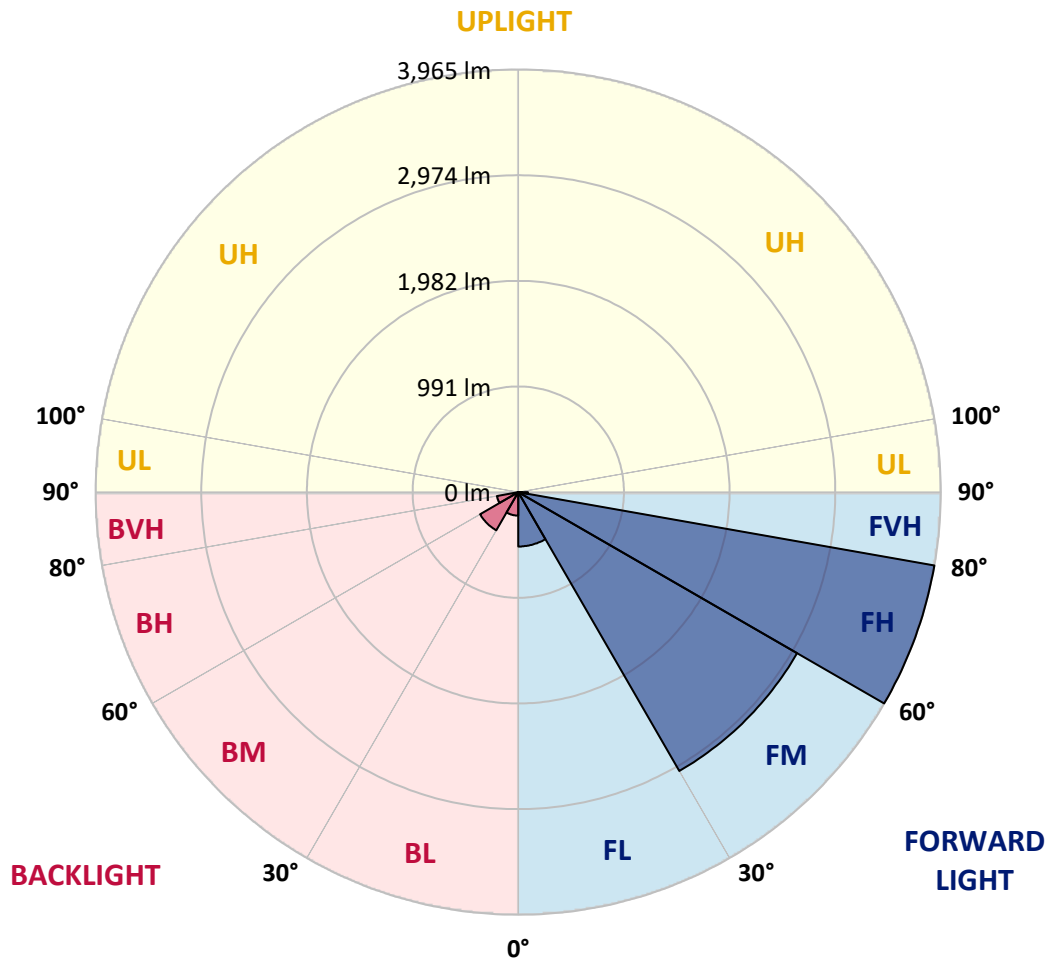
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.2	6.1			
FM	(30°-60°)	3021.0	35.9			
FH	(60°-80°)	3965.0	47.1			G2/5000
FVH	(80°-90°)	90.1	1.1			G1/100
BL	(0°-30°)	220.2	2.6	B1/500		
BM	(30°-60°)	413.8	4.9	B1/1000		
BH	(60°-80°)	203.0	2.4	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0
2.5°	922.8	916.8	907.1	903.4	893.7	888.9	881.6	877.9	864.6	851.3	842.8
5°	1035.6	1021.0	1025.9	1011.3	979.8	954.3	953.1	925.2	894.9	870.7	837.9
7.5°	1149.6	1137.5	1119.3	1098.6	1063.5	1025.9	1015.0	988.3	945.9	903.4	859.8
10°	1235.7	1227.2	1211.4	1182.3	1133.8	1091.4	1092.6	1047.7	1002.8	954.3	894.9
12.5°	1289.0	1292.7	1269.6	1240.5	1198.1	1144.7	1143.5	1113.2	1062.3	1011.3	941.0
15°	1342.4	1355.7	1320.6	1286.6	1232.0	1193.2	1200.5	1164.1	1114.4	1056.2	978.6
17.5°	1350.9	1354.5	1347.2	1297.5	1257.5	1224.8	1226.0	1201.7	1164.1	1101.1	1034.4
20°	1336.3	1333.9	1325.4	1289.0	1262.4	1243.0	1244.2	1238.1	1217.5	1166.6	1075.6
22.5°	1293.9	1293.9	1283.0	1258.7	1246.6	1264.8	1250.2	1273.3	1251.4	1221.1	1145.9
25°	1259.9	1273.3	1267.2	1251.4	1256.3	1280.5	1287.8	1309.6	1306.0	1268.4	1194.4
27.5°	1296.3	1280.5	1284.2	1266.0	1284.2	1320.6	1324.2	1340.0	1338.7	1308.4	1238.1
30°	1320.6	1335.1	1307.2	1267.2	1286.6	1348.5	1346.0	1366.6	1376.3	1340.0	1279.3
32.5°	1398.2	1386.0	1363.0	1309.6	1312.1	1347.2	1358.2	1384.8	1390.9	1369.1	1319.3
35°	1557.0	1538.8	1438.2	1358.2	1346.0	1363.0	1370.3	1422.4	1433.3	1409.1	1361.8
37.5°	1802.0	1760.7	1639.5	1462.4	1407.9	1404.2	1404.2	1473.4	1514.6	1458.8	1424.8
40°	2152.4	2094.2	1963.3	1655.2	1489.1	1503.7	1518.2	1555.8	1551.0	1514.6	1507.3
42.5°	2598.7	2553.8	2411.9	1979.0	1644.3	1571.6	1559.4	1610.4	1686.8	1672.2	1667.4
45°	2971.0	2973.4	2882.4	2422.8	1912.3	1728.0	1736.5	1775.3	1903.8	1892.9	1891.7
47.5°	3242.6	3208.6	3195.3	2850.9	2302.8	2025.1	2013.0	2039.7	2207.0	2276.1	2307.6
50°	3490.0	3466.9	3435.4	3266.8	2772.1	2397.4	2385.3	2387.7	2643.5	2740.6	2818.2
52.5°	3796.8	3825.9	3721.6	3618.5	3379.6	2881.2	2867.9	2820.6	3138.3	3271.7	3363.9
55°	4175.1	4120.5	4002.9	4056.3	3960.5	3403.9	3379.6	3323.8	3702.2	3758.0	3855.0
57.5°	4258.8	4217.5	4338.8	4528.0	4620.1	4017.5	4007.8	3907.1	4176.3	4125.4	4399.4
60°	4467.3	4478.3	4646.8	5022.7	5182.8	4725.6	4678.3	4501.3	4635.9	4645.6	4937.9
62.5°	4682.0	4656.5	5033.7	5395.0	5641.2	5396.2	5380.5	5028.8	5181.6	5057.9	5444.7
65°	4524.3	4563.1	5102.8	5707.9	6235.4	6052.3	6038.9	5536.9	5620.6	5466.6	5650.9
67.5°	3964.1	3885.3	4640.8	5564.8	6541.0	6739.8	6725.3	6091.1	5867.9	5464.1	5222.8
70°	2905.5	2837.6	3453.6	4712.3	6103.2	7091.5	7149.7	6476.7	5767.3	4954.8	4029.6
72.5°	1423.6	1424.8	1935.4	3195.3	4828.7	6463.3	6492.5	5938.3	4954.8	3652.5	2282.2
75°	420.8	425.6	716.7	1566.7	3121.3	4908.7	4941.5	4507.4	3434.2	1886.9	778.5
77.5°	154.0	154.0	237.7	588.1	1557.0	3098.3	3095.9	2767.2	1738.9	639.1	181.9
80°	80.0	83.7	123.7	240.1	674.2	1614.0	1674.6	1354.5	660.9	269.2	53.4
82.5°	32.7	36.4	67.9	123.7	323.8	566.3	619.7	531.1	287.4	188.0	24.3
85°	9.7	10.9	32.7	69.1	127.3	141.9	157.6	178.3	180.7	145.5	10.9
87.5°	1.2	1.2	13.3	23.0	27.9	30.3	35.2	35.2	92.2	101.9	6.1
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°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0
2.5°	833.1	827.0	817.3	795.5	790.6	774.9	773.7	759.1	764.0	754.3	750.6
5°	827.0	813.7	787.0	770.0	753.0	742.1	734.9	728.8	727.6	722.7	720.3
7.5°	837.9	819.7	778.5	751.8	722.7	713.0	697.3	696.1	687.6	679.1	679.1
10°	874.3	841.6	796.7	751.8	714.2	682.7	646.3	619.7	610.0	588.1	590.6
12.5°	903.4	874.3	808.8	762.7	705.8	634.2	554.2	492.3	463.2	435.3	446.2
15°	944.6	902.2	831.9	765.2	673.0	549.3	418.4	349.2	322.6	316.5	315.3
17.5°	989.5	944.6	861.0	759.1	606.3	424.4	308.0	268.0	272.8	280.1	278.9
20°	1039.2	984.7	882.8	738.5	500.8	308.0	252.2	251.0	258.3	269.2	271.6
22.5°	1091.4	1044.1	909.5	676.7	373.5	247.4	242.5	242.5	247.4	260.7	258.3
25°	1149.6	1086.5	922.8	580.9	268.0	228.0	230.4	235.3	237.7	248.6	249.8
27.5°	1194.4	1133.8	926.5	465.7	218.3	211.0	217.1	223.1	226.8	235.3	238.9
30°	1235.7	1193.2	907.1	346.8	200.1	196.4	198.9	207.4	214.6	221.9	221.9
32.5°	1287.8	1227.2	862.2	246.2	189.2	183.1	181.9	185.5	194.0	202.5	202.5
35°	1341.2	1284.2	790.6	197.7	179.5	171.0	166.1	162.5	166.1	172.2	177.0
37.5°	1418.8	1370.3	700.9	181.9	172.2	160.1	150.4	141.9	135.8	134.6	138.2
40°	1529.1	1467.3	585.7	171.0	163.7	149.2	134.6	120.1	106.7	98.2	99.4
42.5°	1696.5	1610.4	460.8	164.9	157.6	137.0	116.4	95.8	78.8	70.3	70.3
45°	1935.4	1799.6	338.3	158.9	150.4	122.5	95.8	71.5	54.6	49.7	50.9
47.5°	2295.5	2027.5	242.5	149.2	140.7	106.7	75.2	50.9	40.0	37.6	38.8
50°	2766.0	2297.9	189.2	138.2	128.5	89.7	55.8	37.6	31.5	30.3	31.5
52.5°	3259.6	2570.8	166.1	128.5	110.3	71.5	41.2	30.3	26.7	25.5	26.7
55°	3681.6	2746.6	144.3	114.0	88.5	53.4	32.7	26.7	23.0	19.4	19.4
57.5°	4108.4	2835.1	114.0	94.6	65.5	40.0	27.9	23.0	19.4	15.8	14.6
60°	4455.2	2898.2	81.2	70.3	46.1	31.5	24.3	20.6	15.8	12.1	10.9
62.5°	4683.2	2717.5	59.4	53.4	34.0	26.7	20.6	17.0	12.1	8.5	8.5
65°	4570.4	2467.7	46.1	37.6	25.5	20.6	17.0	12.1	8.5	4.9	3.6
67.5°	4101.1	2010.5	37.6	27.9	19.4	15.8	13.3	9.7	4.9	1.2	1.2
70°	3059.5	1473.4	30.3	20.6	15.8	12.1	9.7	6.1	2.4	1.2	0.0
72.5°	1673.4	806.4	24.3	17.0	12.1	9.7	7.3	4.9	2.4	0.0	0.0
75°	553.0	214.6	18.2	12.1	7.3	6.1	4.9	3.6	1.2	0.0	0.0
77.5°	133.4	55.8	14.6	10.9	6.1	3.6	2.4	1.2	1.2	0.0	0.0
80°	41.2	23.0	10.9	7.3	4.9	3.6	1.2	0.0	0.0	0.0	0.0
82.5°	17.0	10.9	4.9	4.9	3.6	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.5	6.1	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.4	1.2	1.2	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)