

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: P483730

Luminaire Tested: **IFLD-S-SA2C-827-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483730  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

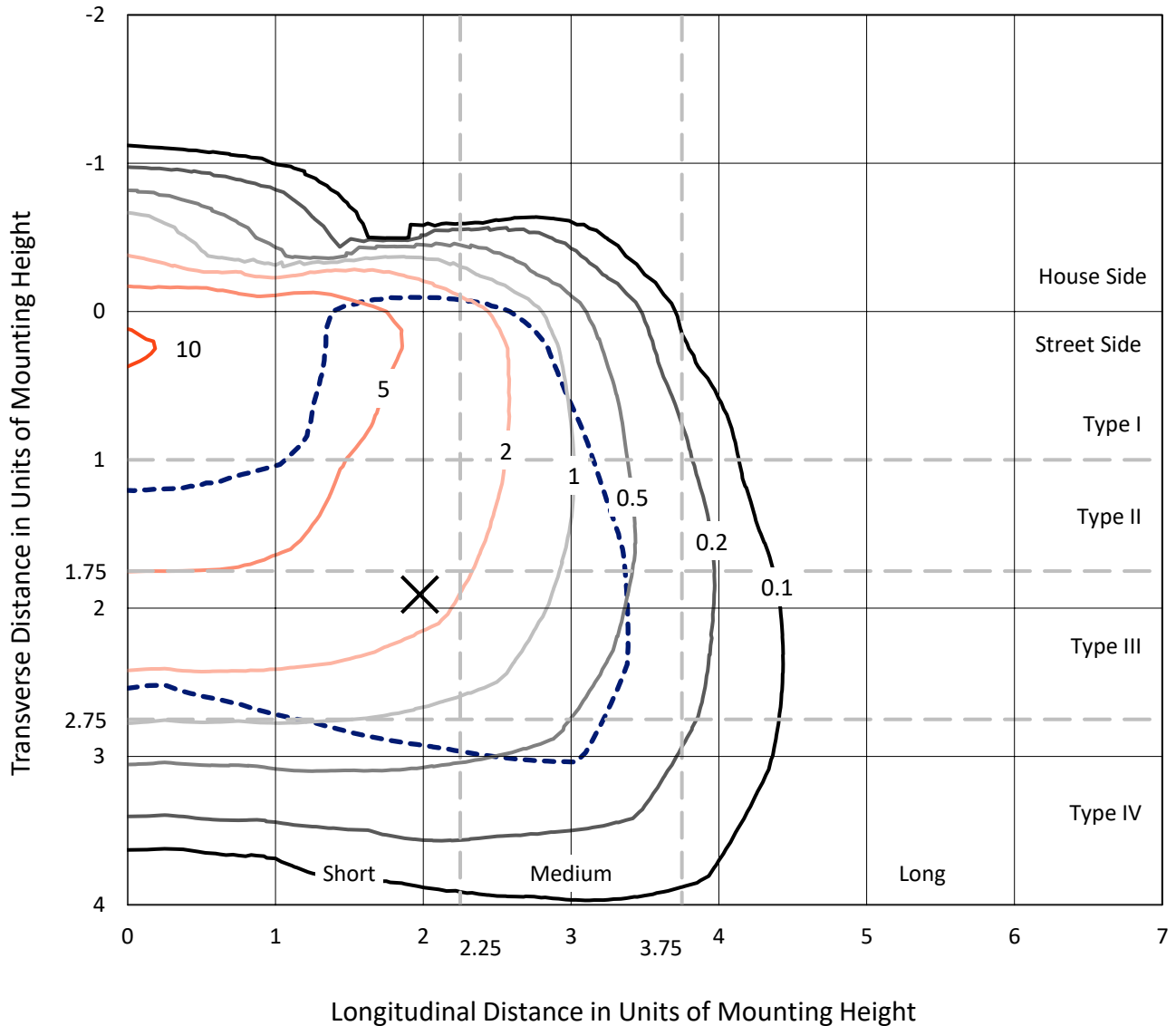
Lumens per Lamp: N/A  
Luminaire Lumens: 7709.1 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P483730  
 CATALOG NUMBER: IFLD-S-SA2C-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

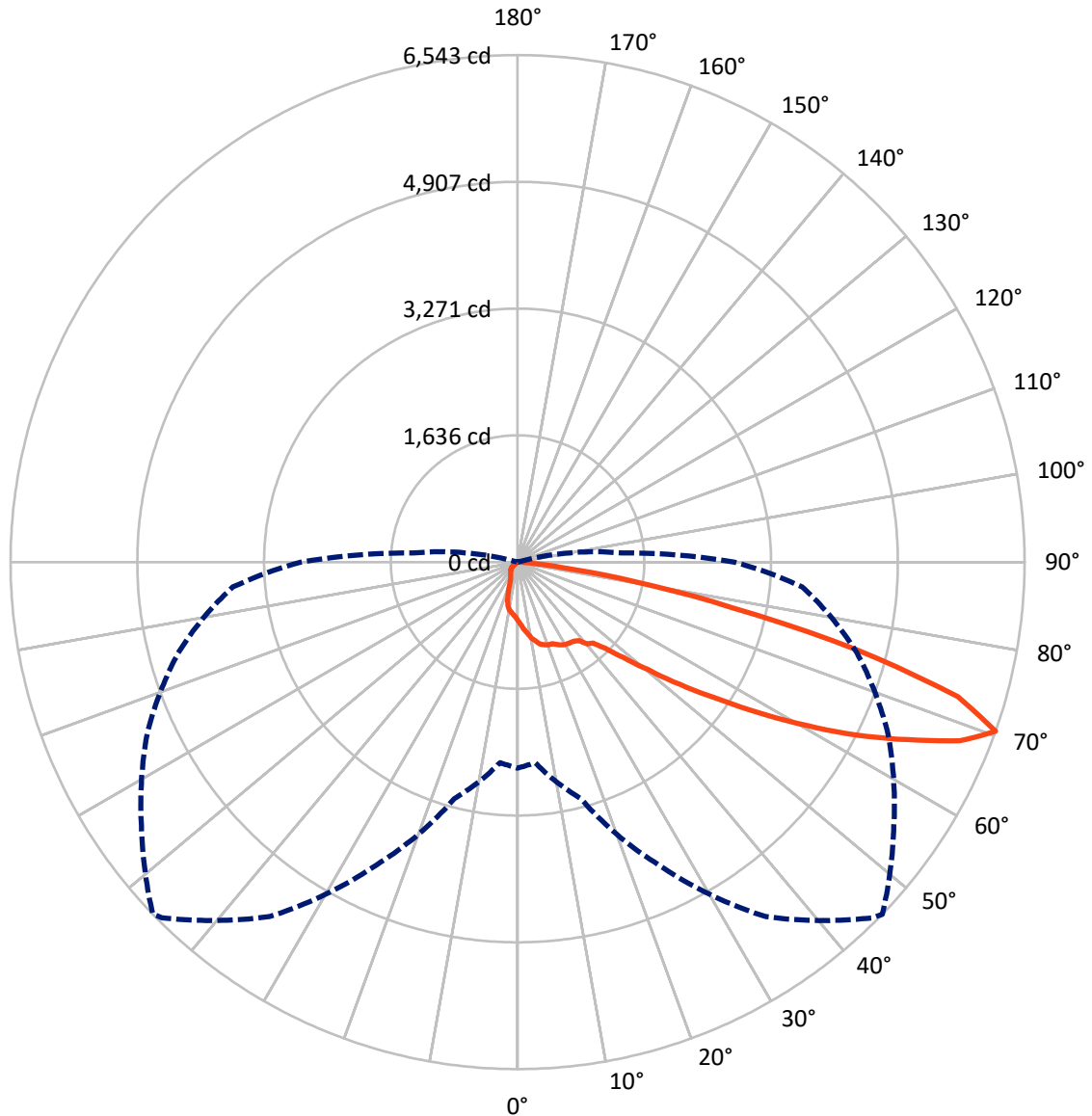
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483730  
CATALOG NUMBER: IFLD-S-SA2C-827-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483730  
 CATALOG NUMBER: IFLD-S-SA2C-827-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	767.1	0.0	767.1
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	6942.0	0.0	6942.0
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	7709.1	0.0	7709.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.0
10°-20°	227.9	3.0
20°-30°	365.0	4.7
30°-40°	521.0	6.8
40°-50°	899.7	11.7
50°-60°	1722.5	22.3
60°-70°	2550.7	33.1
70°-80°	1263.3	16.4
80°-90°	83.5	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°	7709.1	100.0
0°-180°	7709.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P483730

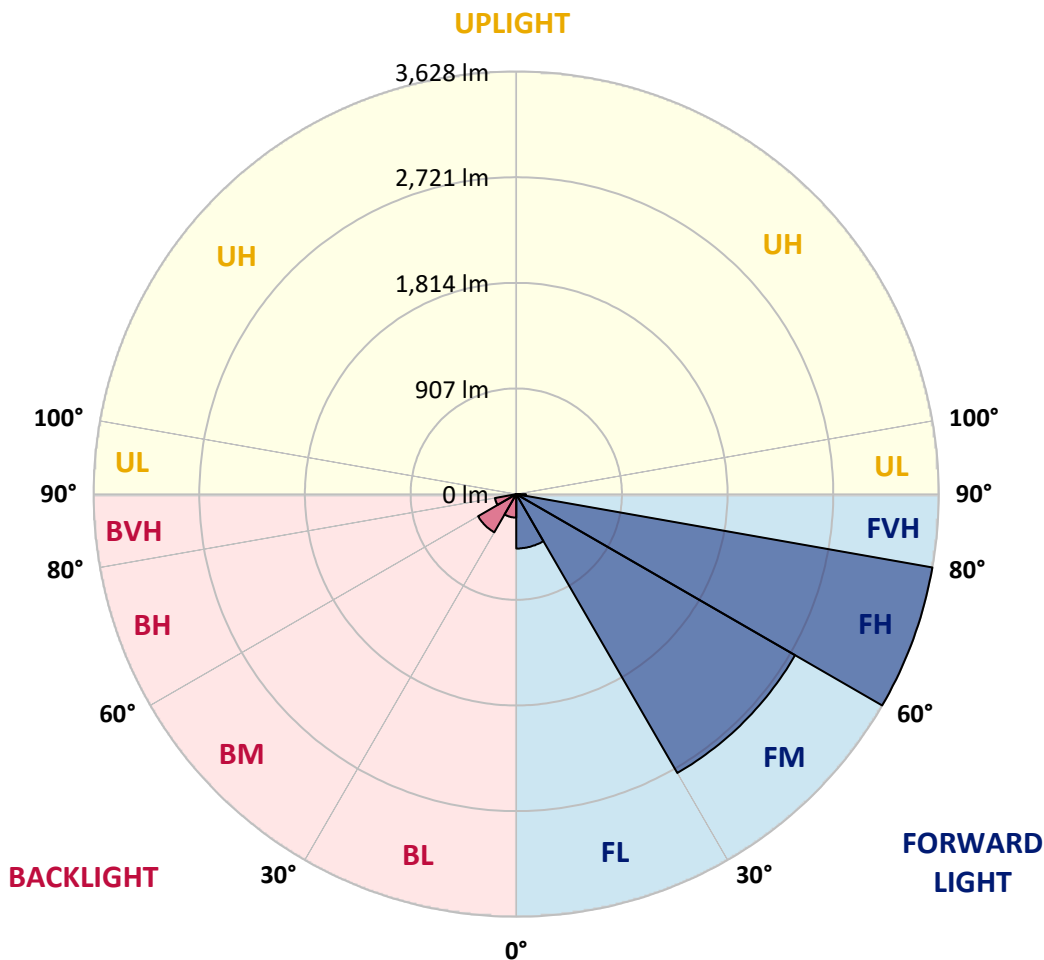
CATALOG NUMBER: IFLD-S-SA2C-827-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.8	6.1			
FM (30°-60°)	2764.5	35.9			
FH (60°-80°)	3628.3	47.1			G2/5000
FVH (80°-90°)	82.4	1.1			G1/100
BL (0°-30°)	201.5	2.6	B1/500		
BM (30°-60°)	378.7	4.9	B1/1000		
BH (60°-80°)	185.8	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





REPORT NUMBER: P483730

CATALOG NUMBER: IFLD-S-SA2C-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8
2.5°	844.5	838.9	830.0	826.7	817.8	813.4	806.7	803.4	791.2	779.0	771.2
5°	947.7	934.3	938.8	925.5	896.6	873.3	872.2	846.7	818.9	796.7	766.8
7.5°	1052.0	1040.9	1024.2	1005.4	973.2	938.8	928.8	904.4	865.5	826.7	786.8
10°	1130.8	1123.0	1108.6	1081.9	1037.5	998.7	999.8	958.8	917.7	873.3	818.9
12.5°	1179.6	1182.9	1161.8	1135.2	1096.4	1047.5	1046.4	1018.7	972.1	925.5	861.1
15°	1228.4	1240.6	1208.4	1177.4	1127.4	1091.9	1098.6	1065.3	1019.8	966.5	895.5
17.5°	1236.2	1239.5	1232.8	1187.3	1150.7	1120.8	1121.9	1099.7	1065.3	1007.6	946.5
20°	1222.9	1220.6	1212.9	1179.6	1155.2	1137.4	1138.5	1133.0	1114.1	1067.5	984.3
22.5°	1184.0	1184.0	1174.0	1151.8	1140.7	1157.4	1144.1	1165.2	1145.2	1117.4	1048.6
25°	1152.9	1165.2	1159.6	1145.2	1149.6	1171.8	1178.5	1198.4	1195.1	1160.7	1093.0
27.5°	1186.2	1171.8	1175.1	1158.5	1175.1	1208.4	1211.8	1226.2	1225.1	1197.3	1133.0
30°	1208.4	1221.7	1196.2	1159.6	1177.4	1234.0	1231.7	1250.6	1259.5	1226.2	1170.7
32.5°	1279.4	1268.4	1247.3	1198.4	1200.7	1232.8	1242.8	1267.2	1272.8	1252.8	1207.3
35°	1424.8	1408.2	1316.1	1242.8	1231.7	1247.3	1253.9	1301.6	1311.6	1289.4	1246.2
37.5°	1649.0	1611.2	1500.3	1338.3	1288.3	1285.0	1285.0	1348.2	1386.0	1334.9	1303.9
40°	1969.7	1916.4	1796.6	1514.7	1362.7	1376.0	1389.3	1423.7	1419.3	1386.0	1379.3
42.5°	2378.0	2337.0	2207.1	1811.0	1504.7	1438.1	1427.0	1473.6	1543.5	1530.2	1525.8
45°	2718.7	2720.9	2637.7	2217.1	1749.9	1581.3	1589.0	1624.6	1742.2	1732.2	1731.1
47.5°	2967.3	2936.2	2924.0	2608.8	2107.3	1853.1	1842.1	1866.5	2019.6	2082.8	2111.7
50°	3193.6	3172.5	3143.7	2989.4	2536.7	2193.8	2182.7	2184.9	2419.1	2507.9	2578.9
52.5°	3474.4	3501.0	3405.6	3311.3	3092.6	2636.6	2624.4	2581.1	2871.8	2993.9	3078.2
55°	3820.6	3770.7	3663.0	3711.8	3624.2	3114.8	3092.6	3041.6	3387.8	3438.9	3527.6
57.5°	3897.2	3859.4	3970.4	4143.5	4227.8	3676.3	3667.5	3575.4	3821.7	3775.1	4025.9
60°	4088.0	4098.0	4252.3	4596.2	4742.7	4324.4	4281.1	4119.1	4242.3	4251.1	4518.6
62.5°	4284.4	4261.1	4606.2	4936.9	5162.2	4938.0	4923.6	4601.8	4741.6	4628.4	4982.4
65°	4140.2	4175.7	4669.5	5223.2	5705.9	5538.4	5526.2	5066.7	5143.3	5002.4	5171.1
67.5°	3627.5	3555.4	4246.7	5092.3	5985.6	6167.5	6154.2	5573.9	5369.7	5000.2	4779.3
70°	2658.8	2596.6	3160.3	4312.2	5585.0	6489.3	6542.6	5926.7	5277.6	4534.1	3687.4
72.5°	1302.8	1303.9	1771.0	2924.0	4418.7	5914.5	5941.2	5434.0	4534.1	3342.3	2088.4
75°	385.1	389.5	655.8	1433.7	2856.3	4491.9	4521.9	4124.6	3142.6	1726.6	712.4
77.5°	140.9	140.9	217.5	538.2	1424.8	2835.2	2833.0	2532.3	1591.3	584.8	166.5
80°	73.2	76.6	113.2	219.7	617.0	1477.0	1532.5	1239.5	604.8	246.3	48.8
82.5°	30.0	33.3	62.1	113.2	296.3	518.2	567.0	486.0	263.0	172.0	22.2
85°	8.9	10.0	30.0	63.3	116.5	129.8	144.3	163.1	165.3	133.2	10.0
87.5°	1.1	1.1	12.2	21.1	25.5	27.7	32.2	32.2	84.3	93.2	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483730  
 CATALOG NUMBER: IFLD-S-SA2C-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8	756.8
2.5°	762.3	756.8	747.9	727.9	723.5	709.1	708.0	694.7	699.1	690.2	686.9
5°	756.8	744.6	720.2	704.6	689.1	679.1	672.5	666.9	665.8	661.4	659.1
7.5°	766.8	750.1	712.4	688.0	661.4	652.5	638.1	636.9	629.2	621.4	621.4
10°	800.1	770.1	729.1	688.0	653.6	624.7	591.5	567.0	558.2	538.2	540.4
12.5°	826.7	800.1	740.1	698.0	645.8	580.4	507.1	450.5	423.9	398.4	408.4
15°	864.4	825.6	761.2	700.2	615.9	502.7	382.8	319.6	295.2	289.6	288.5
17.5°	905.5	864.4	787.9	694.7	554.8	388.4	281.9	245.2	249.7	256.3	255.2
20°	951.0	901.1	807.8	675.8	458.3	281.9	230.8	229.7	236.4	246.3	248.6
22.5°	998.7	955.4	832.3	619.2	341.8	226.4	221.9	221.9	226.4	238.6	236.4
25°	1052.0	994.3	844.5	531.5	245.2	208.6	210.8	215.3	217.5	227.5	228.6
27.5°	1093.0	1037.5	847.8	426.1	199.7	193.1	198.6	204.2	207.5	215.3	218.6
30°	1130.8	1091.9	830.0	317.4	183.1	179.8	182.0	189.8	196.4	203.1	203.1
32.5°	1178.5	1123.0	789.0	225.3	173.1	167.6	166.5	169.8	177.5	185.3	185.3
35°	1227.3	1175.1	723.5	180.9	164.2	156.5	152.0	148.7	152.0	157.6	162.0
37.5°	1298.3	1253.9	641.4	166.5	157.6	146.5	137.6	129.8	124.3	123.2	126.5
40°	1399.3	1342.7	536.0	156.5	149.8	136.5	123.2	109.9	97.7	89.9	91.0
42.5°	1552.4	1473.6	421.7	150.9	144.3	125.4	106.5	87.7	72.1	64.4	64.4
45°	1771.0	1646.7	309.6	145.4	137.6	112.1	87.7	65.5	49.9	45.5	46.6
47.5°	2100.6	1855.4	221.9	136.5	128.7	97.7	68.8	46.6	36.6	34.4	35.5
50°	2531.2	2102.8	173.1	126.5	117.6	82.1	51.0	34.4	28.9	27.7	28.9
52.5°	2982.8	2352.5	152.0	117.6	101.0	65.5	37.7	27.7	24.4	23.3	24.4
55°	3369.0	2513.4	132.1	104.3	81.0	48.8	30.0	24.4	21.1	17.8	17.8
57.5°	3759.6	2594.4	104.3	86.6	59.9	36.6	25.5	21.1	17.8	14.4	13.3
60°	4076.9	2652.1	74.3	64.4	42.2	28.9	22.2	18.9	14.4	11.1	10.0
62.5°	4285.5	2486.8	54.4	48.8	31.1	24.4	18.9	15.5	11.1	7.8	7.8
65°	4182.3	2258.2	42.2	34.4	23.3	18.9	15.5	11.1	7.8	4.4	3.3
67.5°	3752.9	1839.8	34.4	25.5	17.8	14.4	12.2	8.9	4.4	1.1	1.1
70°	2799.7	1348.2	27.7	18.9	14.4	11.1	8.9	5.5	2.2	1.1	0.0
72.5°	1531.3	737.9	22.2	15.5	11.1	8.9	6.7	4.4	2.2	0.0	0.0
75°	506.0	196.4	16.6	11.1	6.7	5.5	4.4	3.3	1.1	0.0	0.0
77.5°	122.1	51.0	13.3	10.0	5.5	3.3	2.2	1.1	1.1	0.0	0.0
80°	37.7	21.1	10.0	6.7	4.4	3.3	1.1	0.0	0.0	0.0	0.0
82.5°	15.5	10.0	4.4	4.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0
85°	7.8	5.5	3.3	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	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)