

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: P483144

Luminaire Tested: **IFLD-S-SA2B-730-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

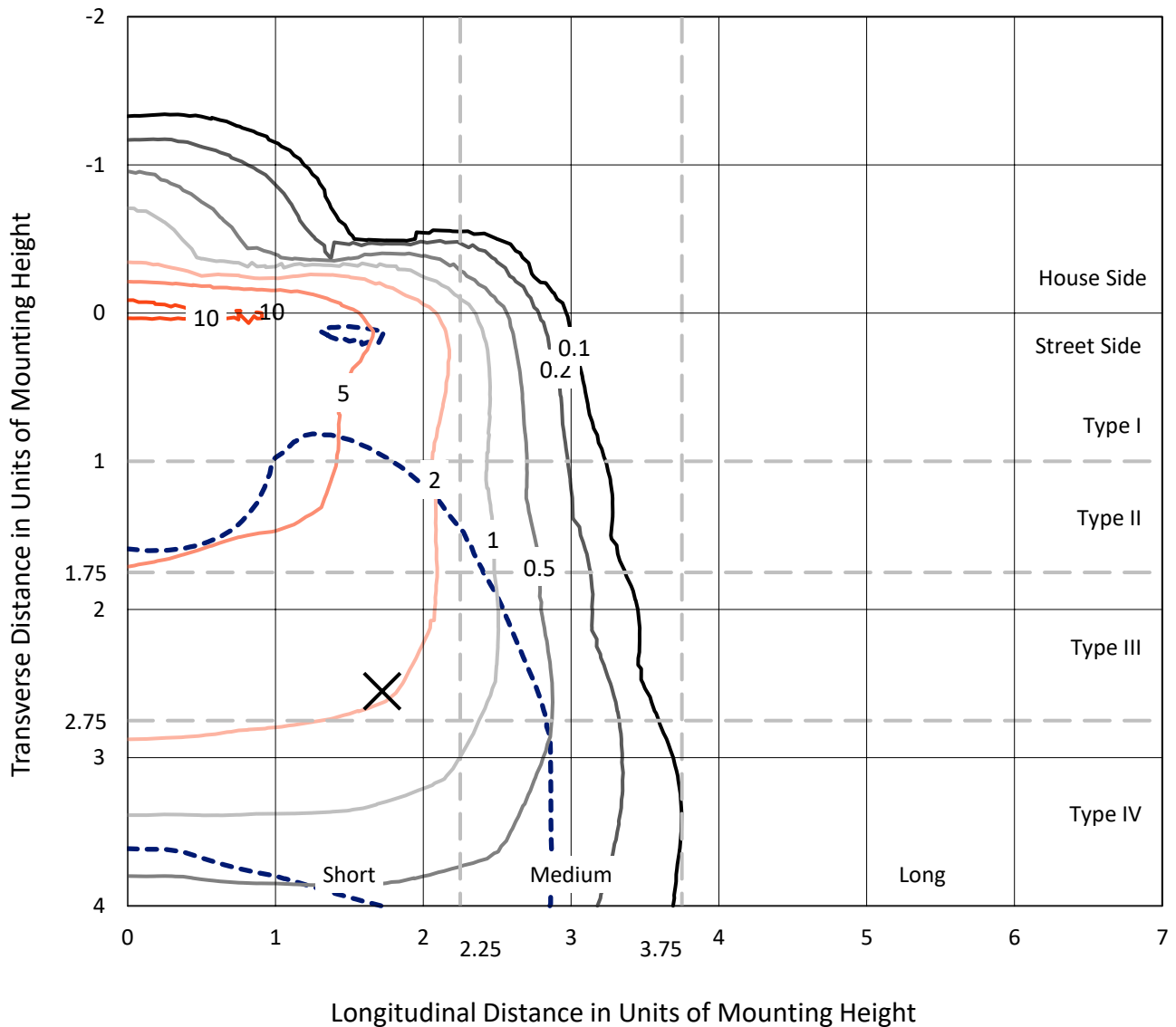
Lumens per Lamp: N/A
Luminaire Lumens: 7518 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (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

REPORT NUMBER: P483144
 CATALOG NUMBER: IFLD-S-SA2B-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

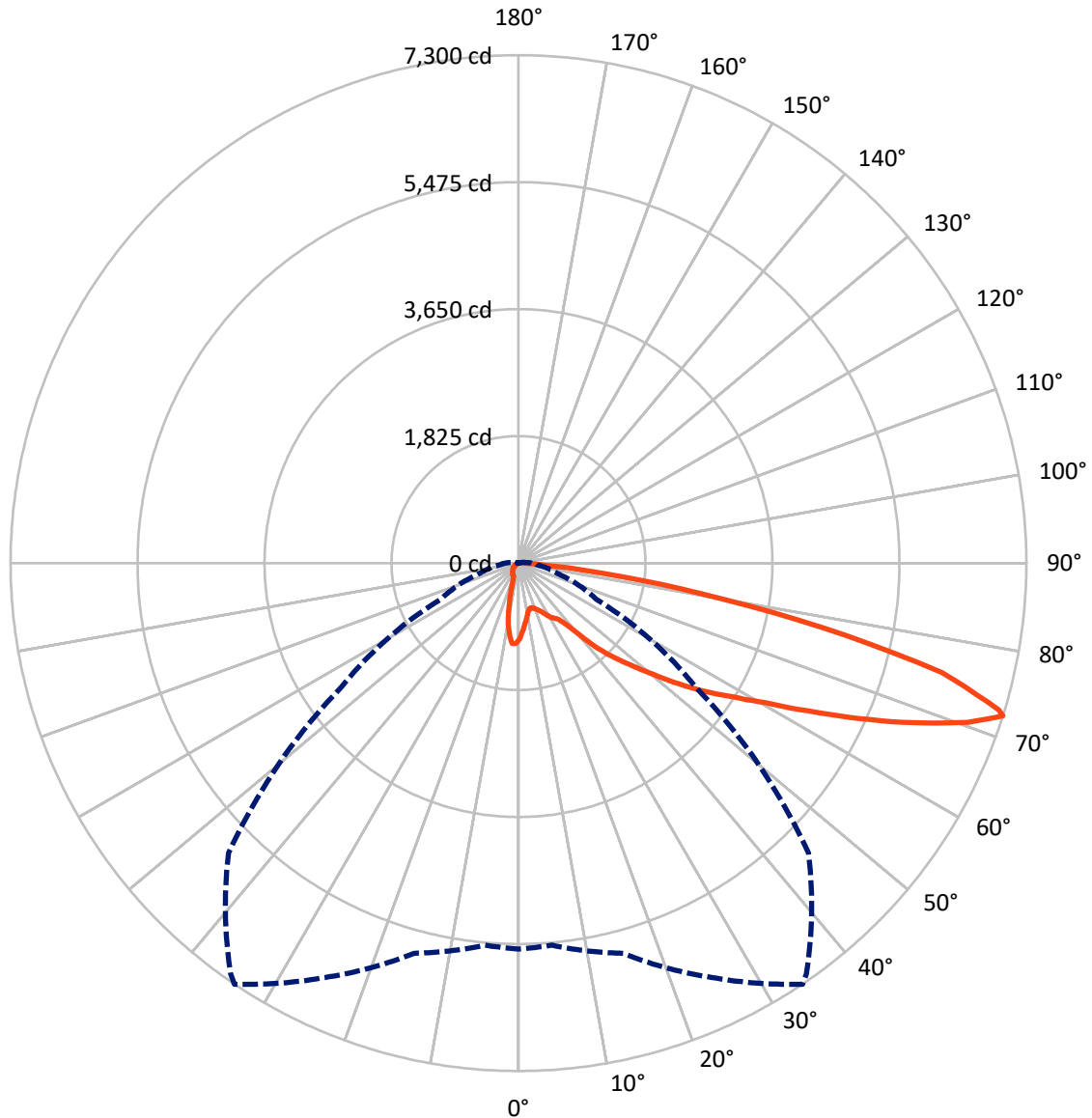
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P483144
CATALOG NUMBER: IFLD-S-SA2B-730-U-T4FT-HSS

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	769.7	0.0	769.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	6748.3	0.0	6748.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	7518.0	0.0	7518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.3
10°-20°	216.2	2.9
20°-30°	326.3	4.3
30°-40°	529.5	7.0
40°-50°	995.7	13.2
50°-60°	1627.9	21.7
60°-70°	2164.1	28.8
70°-80°	1449.3	19.3
80°-90°	113.6	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°	7518.0	100.0
0°-180°	7518.0	100.0

Coefficient of Utilization

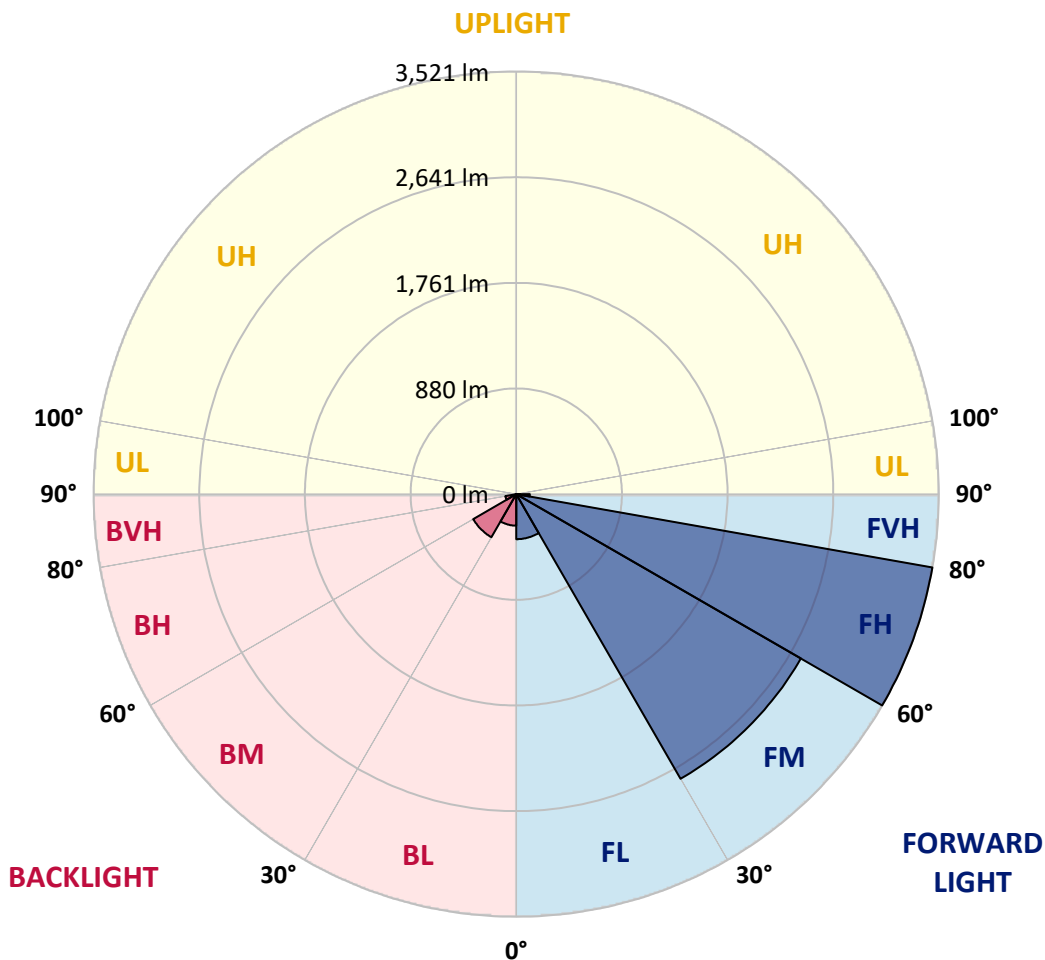


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.3	5.0			
FM (30°-60°)	2738.8	36.4			
FH (60°-80°)	3521.3	46.8			G2/5000
FVH (80°-90°)	112.9	1.5			G2/225
BL (0°-30°)	262.6	3.5	B1/500		
BM (30°-60°)	414.3	5.5	B1/1000		
BH (60°-80°)	92.0	1.2	B0/110		G0/110
BVH (80°-90°)	0.7	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: P483144

CATALOG NUMBER: IFLD-S-SA2B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9
2.5°	972.7	970.5	977.1	987.9	998.8	994.5	1015.1	1036.8	1052.1	1072.7	1097.7
5°	849.9	855.3	861.9	883.6	897.7	901.0	939.0	967.3	1014.0	1061.8	1106.4
7.5°	738.0	744.5	757.5	781.4	810.8	818.4	856.4	912.9	973.8	1036.8	1109.7
10°	656.5	663.0	677.1	692.3	731.4	731.4	783.6	861.9	941.2	1015.1	1110.8
12.5°	639.1	642.3	641.2	653.2	678.2	683.6	734.7	820.6	912.9	1007.5	1128.1
15°	659.7	661.9	651.0	644.5	666.2	671.7	719.5	795.6	894.5	1011.8	1156.4
17.5°	701.0	693.4	671.7	661.9	680.4	683.6	728.2	794.5	892.3	1023.8	1189.0
20°	724.9	733.6	695.6	677.1	703.2	707.5	755.4	811.9	903.2	1044.5	1234.7
22.5°	767.3	771.7	720.6	708.6	733.6	733.6	788.0	846.6	929.2	1078.1	1289.0
25°	827.1	821.7	761.9	749.9	773.8	783.6	838.0	902.1	969.5	1109.7	1339.0
27.5°	873.8	877.1	828.2	796.7	836.9	843.4	902.1	961.9	999.9	1135.7	1399.9
30°	943.4	936.9	884.7	848.8	898.8	899.9	956.4	1018.4	1058.6	1182.5	1491.1
32.5°	1026.0	1012.9	953.2	902.1	942.3	952.1	1009.7	1099.9	1149.9	1270.5	1632.4
35°	1201.0	1169.4	1071.6	992.3	995.5	999.9	1089.0	1218.3	1276.0	1382.5	1821.5
37.5°	1456.4	1443.3	1332.5	1181.4	1123.8	1110.8	1210.7	1374.9	1446.6	1530.3	2067.2
40°	1709.6	1691.1	1587.9	1473.8	1369.4	1343.3	1393.3	1582.4	1647.7	1735.7	2319.3
42.5°	1991.1	1958.5	1836.8	1744.4	1679.2	1650.9	1631.3	1843.3	1917.2	1977.0	2566.0
45°	2275.8	2222.6	2046.5	1975.9	1941.1	1925.9	1923.7	2171.5	2216.1	2228.0	2839.9
47.5°	2525.8	2468.2	2308.5	2229.1	2203.0	2198.7	2320.4	2549.7	2515.0	2483.4	3145.3
50°	2718.2	2681.2	2566.0	2537.8	2518.2	2510.6	2795.4	2938.8	2778.0	2722.5	3413.8
52.5°	3016.0	2933.4	2803.0	2812.7	2881.2	2882.3	3276.8	3308.3	2996.4	2886.6	3667.0
55°	3254.0	3199.7	3093.1	3079.0	3259.4	3279.0	3708.3	3588.7	3118.1	3043.2	3760.5
57.5°	3534.4	3509.4	3432.2	3434.4	3623.5	3664.8	4092.0	3825.7	3219.2	3144.2	3774.6
60°	3939.8	3868.1	3827.9	3846.3	4069.1	4109.3	4463.7	3996.3	3268.1	3210.5	3739.8
62.5°	4387.6	4303.9	4260.4	4355.0	4679.9	4686.5	4746.2	4147.4	3237.7	3227.9	3515.9
65°	4926.7	4844.1	4809.3	4999.5	5385.3	5361.4	5142.9	4211.5	3141.0	3052.9	2927.9
67.5°	5463.5	5413.6	5341.8	5645.1	6125.4	6125.4	5554.8	4187.6	2887.7	2450.8	1915.0
70°	5717.9	5752.6	5866.8	6342.8	6852.5	6800.4	5961.3	3912.6	2149.8	1316.2	753.2
72°	5548.3	5512.5	5807.0	6571.0	7300.3	7214.5	5892.9	3110.5	1242.3	577.1	261.9
72.5°	5257.0	5290.7	5696.1	6539.5	7216.6	7287.3	5725.5	2869.3	1021.6	459.7	197.8
75°	3223.6	3281.2	4251.7	5552.7	6288.5	6209.1	4428.9	1367.2	392.3	195.6	70.6
77.5°	1177.0	1224.9	2062.8	3494.2	4472.4	4422.4	2562.8	485.8	213.0	145.6	35.9
80°	306.5	331.5	701.0	1611.8	2630.2	2633.4	1072.7	194.5	144.5	119.6	21.7
82.5°	60.9	67.4	215.2	627.1	1229.2	1212.9	339.1	104.3	108.7	97.8	15.2
85°	7.6	9.8	45.6	213.0	397.8	356.5	83.7	52.2	80.4	76.1	9.8
87.5°	1.1	1.1	10.9	48.9	83.7	81.5	17.4	16.3	35.9	46.7	5.4
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: P483144

CATALOG NUMBER: IFLD-S-SA2B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9	1099.9
2.5°	1111.8	1116.2	1131.4	1144.4	1159.7	1164.0	1157.5	1168.4	1153.1	1161.8	1164.0
5°	1114.0	1139.0	1167.3	1185.7	1181.4	1170.5	1161.8	1132.5	1111.8	1104.2	1120.5
7.5°	1129.2	1157.5	1187.9	1187.9	1164.0	1107.5	1053.1	1001.0	957.5	935.8	954.2
10°	1148.8	1178.1	1209.7	1168.4	1079.2	976.0	898.8	801.0	734.7	699.9	703.2
12.5°	1174.9	1216.2	1227.0	1131.4	983.6	830.3	690.1	554.3	491.3	441.3	442.3
15°	1208.6	1248.8	1216.2	1051.0	861.9	635.8	467.3	338.0	288.0	261.9	261.9
17.5°	1253.1	1283.6	1212.9	977.1	697.8	434.7	286.9	228.2	217.4	213.0	213.0
20°	1305.3	1328.1	1181.4	861.9	518.4	279.3	210.8	204.3	205.4	203.2	203.2
22.5°	1364.0	1371.6	1145.5	728.2	351.0	206.5	196.7	197.8	198.9	196.7	197.8
25°	1425.9	1405.3	1093.4	571.7	233.7	188.0	190.2	192.4	193.5	194.5	194.5
27.5°	1495.5	1454.2	1020.5	418.4	182.6	177.2	183.7	190.2	191.3	191.3	190.2
30°	1597.7	1529.2	949.9	283.7	160.9	165.2	176.1	183.7	189.1	189.1	188.0
32.5°	1727.0	1607.4	851.0	193.5	148.9	151.1	159.8	175.0	186.9	188.0	184.8
35°	1906.3	1702.0	747.7	154.3	140.2	141.3	146.7	158.7	179.3	185.8	184.8
37.5°	2095.4	1809.6	619.5	139.1	133.7	132.6	135.9	145.6	164.1	180.4	181.5
40°	2296.5	1922.6	484.7	131.5	128.2	126.1	127.2	131.5	145.6	166.3	170.6
42.5°	2485.6	2024.8	364.1	123.9	122.8	120.6	120.6	121.7	129.3	143.5	145.6
45°	2689.9	2108.5	277.1	118.5	115.2	116.3	111.9	109.8	115.2	116.3	115.2
47.5°	2881.2	2192.2	221.7	111.9	108.7	108.7	103.2	98.9	98.9	89.1	88.0
50°	3060.5	2237.8	177.2	103.2	102.2	101.1	93.5	85.9	79.3	67.4	65.2
52.5°	3209.4	2235.6	136.9	92.4	95.6	92.4	80.4	69.6	59.8	48.9	46.7
55°	3254.0	2131.3	103.2	76.1	81.5	77.2	64.1	54.3	43.5	34.8	33.7
57.5°	3216.0	1972.6	78.3	58.7	63.0	58.7	48.9	40.2	30.4	23.9	21.7
60°	3088.8	1786.8	60.9	45.6	47.8	44.6	37.0	30.4	21.7	15.2	13.0
62.5°	2847.5	1554.2	46.7	35.9	34.8	34.8	28.3	22.8	15.2	8.7	7.6
65°	2336.7	1211.8	35.9	25.0	25.0	25.0	21.7	16.3	9.8	4.3	2.2
67.5°	1467.2	705.4	29.3	19.6	18.5	18.5	15.2	10.9	5.4	1.1	0.0
70°	552.1	258.7	22.8	15.2	14.1	14.1	10.9	6.5	3.3	0.0	0.0
72°	190.2	98.9	18.5	10.9	10.9	9.8	7.6	5.4	2.2	0.0	0.0
72.5°	156.5	79.3	17.4	10.9	9.8	9.8	7.6	5.4	2.2	0.0	0.0
75°	56.5	32.6	12.0	7.6	6.5	6.5	5.4	3.3	1.1	0.0	0.0
77.5°	28.3	20.6	9.8	6.5	5.4	3.3	3.3	2.2	1.1	0.0	0.0
80°	17.4	13.0	5.4	4.3	3.3	2.2	1.1	1.1	0.0	0.0	0.0
82.5°	12.0	7.6	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	7.6	3.3	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.2	1.1	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)