

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: P483683

Luminaire Tested: **IFLD-L-SA7D-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483683
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

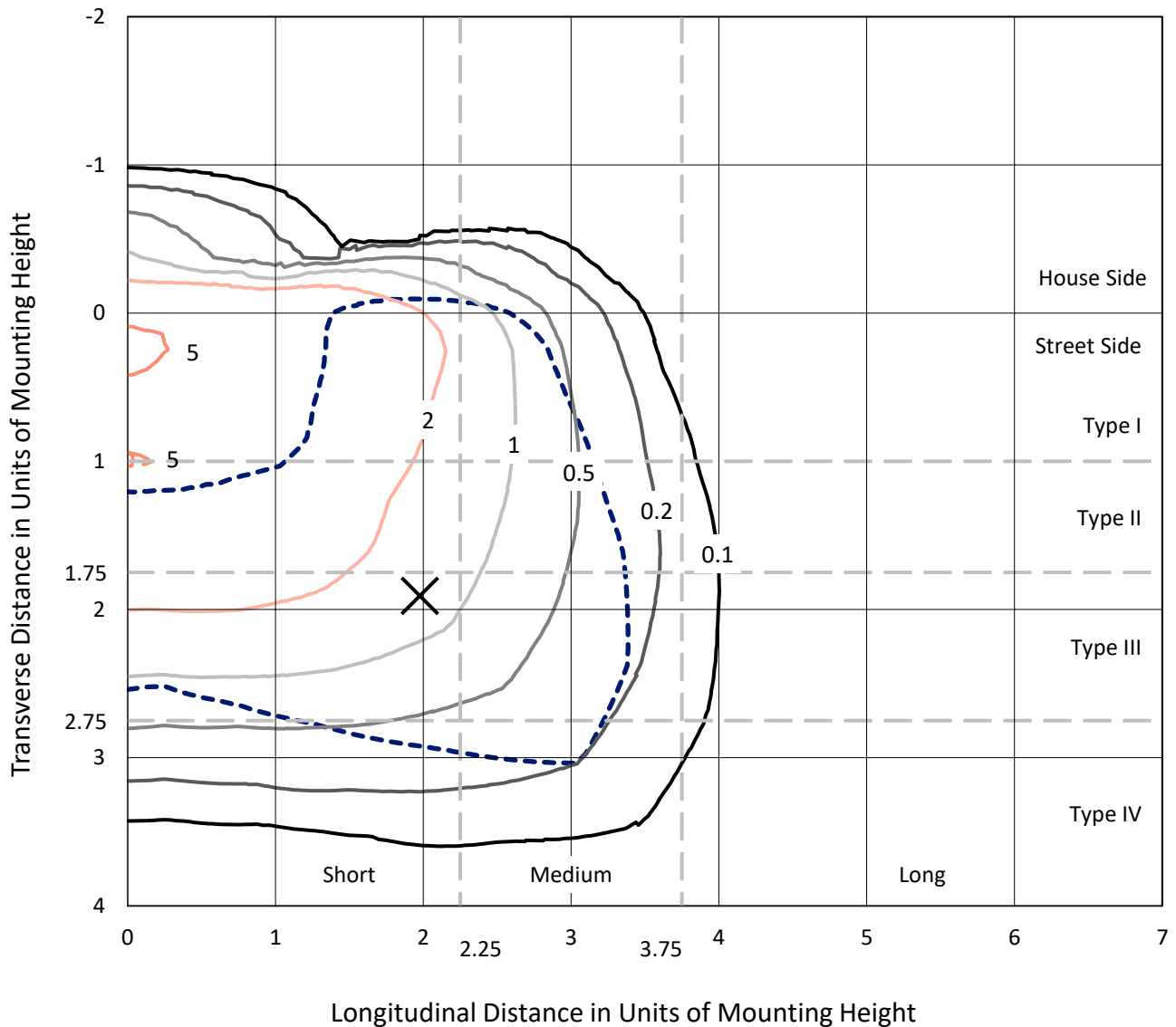
Lumens per Lamp: N/A
Luminaire Lumens: 36815.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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: P483683
 CATALOG NUMBER: IFLD-L-SA7D-750-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

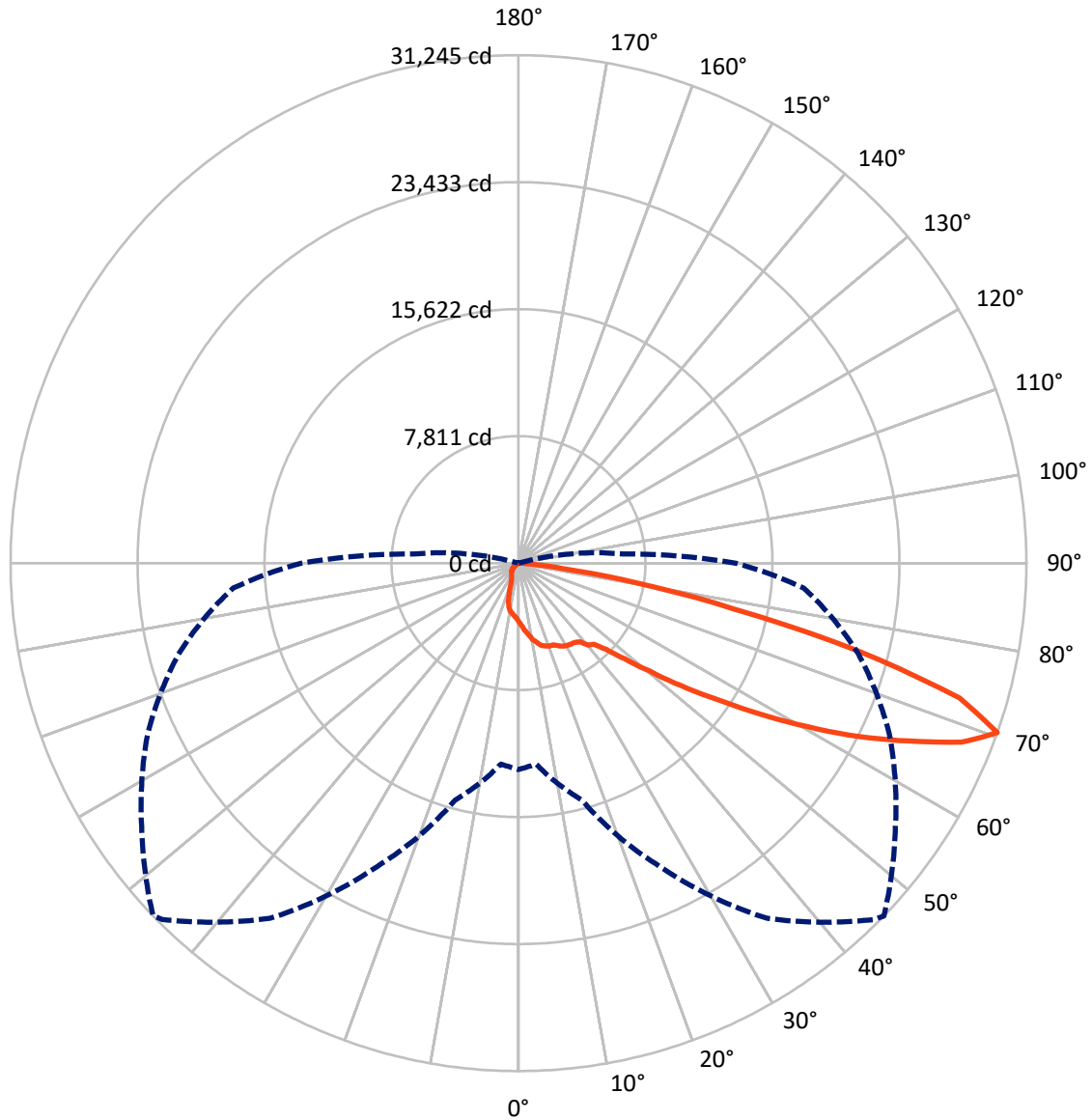
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483683
CATALOG NUMBER: IFLD-L-SA7D-750-U-T4W-HSS

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
House Side	Lumens	3663.2	0.0	3663.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	33151.9	0.0	33151.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	36815.1	0.0	36815.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.0
10°-20°	1088.3	3.0
20°-30°	1743.2	4.7
30°-40°	2488.2	6.8
40°-50°	4296.4	11.7
50°-60°	8225.8	22.3
60°-70°	12181.1	33.1
70°-80°	6033.2	16.4
80°-90°	398.7	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°	36815.1	100.0
0°-180°	36815.1	100.0

Coefficient of Utilization

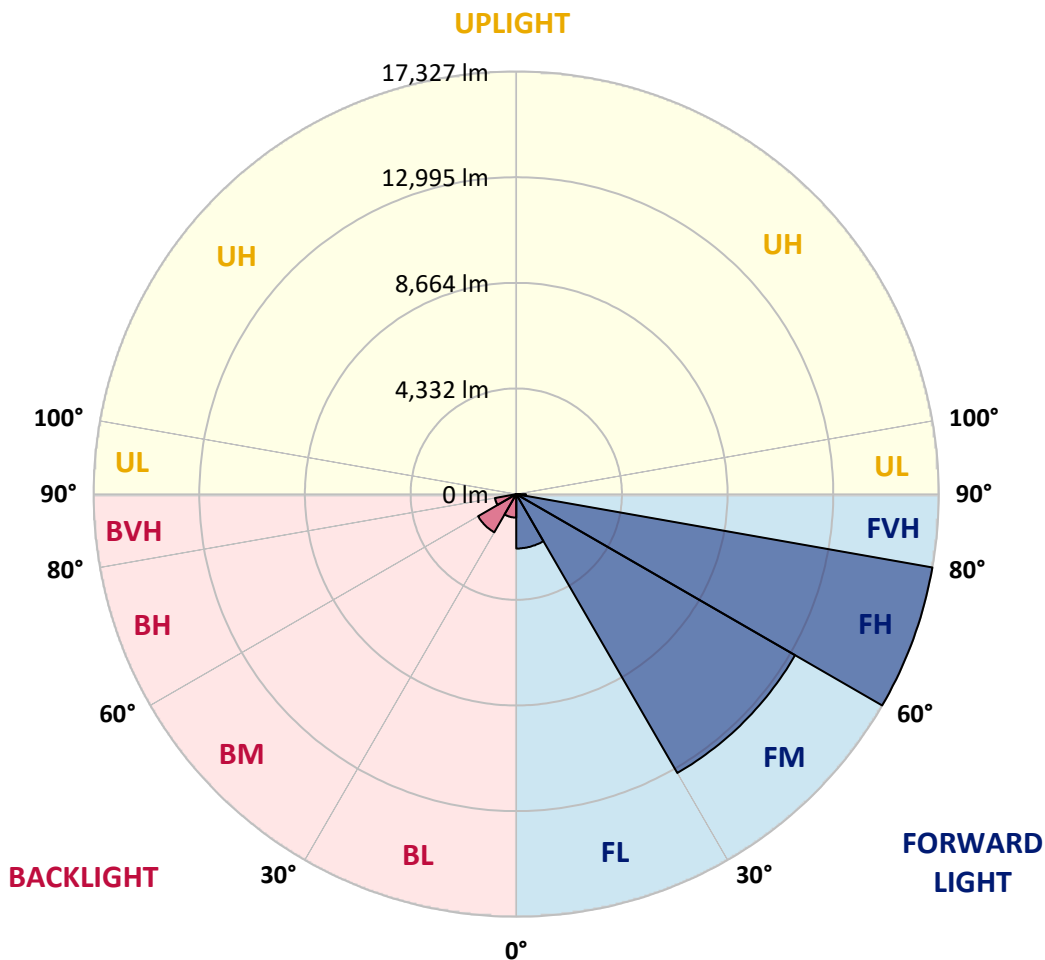


REPORT NUMBER: P483683
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.4	6.1			
FM (30°-60°)	13201.8	35.9			
FH (60°-80°)	17327.1	47.1			G5
FVH (80°-90°)	393.6	1.1			G3/500
BL (0°-30°)	962.4	2.6	B2/1000		
BM (30°-60°)	1808.5	4.9	B2/2500		
BH (60°-80°)	887.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





REPORT NUMBER: P483683

CATALOG NUMBER: IFLD-L-SA7D-750-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1
2.5°	4032.7	4006.2	3963.9	3948.0	3905.6	3884.4	3852.6	3836.7	3778.4	3720.1	3683.0
5°	4525.6	4462.0	4483.2	4419.6	4281.8	4170.5	4165.2	4043.3	3910.9	3804.9	3661.8
7.5°	5023.7	4970.7	4891.2	4801.1	4647.5	4483.2	4435.5	4318.9	4133.4	3948.0	3757.2
10°	5400.0	5362.9	5294.0	5166.8	4954.8	4769.3	4774.6	4578.6	4382.5	4170.5	3910.9
12.5°	5633.1	5649.0	5548.3	5421.1	5235.7	5002.5	4997.2	4864.7	4642.2	4419.6	4112.2
15°	5866.3	5924.6	5770.9	5622.5	5384.1	5214.5	5246.3	5087.3	4870.0	4615.7	4276.5
17.5°	5903.4	5919.3	5887.5	5670.2	5495.3	5352.3	5357.6	5251.6	5087.3	4811.7	4520.3
20°	5839.8	5829.2	5792.1	5633.1	5516.5	5431.7	5437.0	5410.6	5320.5	5097.9	4700.4
22.5°	5654.3	5654.3	5606.6	5500.6	5447.6	5527.1	5463.5	5564.2	5468.8	5336.4	5007.8
25°	5505.9	5564.2	5537.7	5468.8	5490.0	5596.0	5627.8	5723.2	5707.3	5543.0	5219.8
27.5°	5664.9	5596.0	5611.9	5532.4	5611.9	5770.9	5786.8	5855.7	5850.4	5717.9	5410.6
30°	5770.9	5834.5	5712.6	5537.7	5622.5	5892.8	5882.2	5972.3	6014.7	5855.7	5590.7
32.5°	6110.1	6057.1	5956.4	5723.2	5733.8	5887.5	5935.2	6051.8	6078.3	5982.9	5765.6
35°	6804.3	6724.8	6284.9	5935.2	5882.2	5956.4	5988.2	6216.0	6263.7	6157.7	5951.1
37.5°	7874.7	7694.5	7164.6	6390.9	6152.4	6136.6	6136.6	6438.6	6618.8	6375.0	6226.6
40°	9406.2	9151.8	8579.5	7233.5	6507.5	6571.1	6634.7	6799.0	6777.8	6618.8	6587.0
42.5°	11356.3	11160.3	10540.2	8648.4	7185.8	6867.8	6814.9	7037.4	7371.3	7307.7	7286.5
45°	12983.2	12993.8	12596.4	10587.9	8356.9	7551.5	7588.5	7758.1	8319.8	8272.2	8266.9
47.5°	14170.2	14021.9	13963.6	12458.6	10063.3	8849.8	8796.8	8913.4	9644.7	9946.7	10084.5
50°	15251.3	15150.6	15012.8	14276.2	12114.1	10476.6	10423.7	10434.3	11552.4	11976.3	12315.5
52.5°	16592.0	16719.2	16263.4	15813.0	14769.1	12591.1	12532.8	12326.1	13714.5	14297.4	14700.2
55°	18245.4	18006.9	17492.9	17726.0	17307.4	14875.0	14769.1	14525.3	16178.7	16422.4	16846.4
57.5°	18611.0	18430.8	18960.8	19787.5	20190.2	17556.5	17514.1	17074.2	18250.7	18028.1	19225.7
60°	19522.5	19570.2	20306.8	21949.6	22649.1	20651.2	20444.6	19670.9	20259.1	20301.5	21578.6
62.5°	20460.5	20349.2	21997.3	23576.4	24652.2	23581.7	23512.8	21976.1	22643.8	22103.2	23793.7
65°	19771.6	19941.1	22299.3	24943.6	27248.8	26448.6	26390.3	24196.4	24562.1	23889.1	24694.6
67.5°	17323.3	16978.8	20280.3	24318.3	28584.2	29453.3	29389.7	26618.2	25643.1	23878.5	22823.9
70°	12697.0	12400.3	15092.3	20592.9	26671.2	30990.1	31244.5	28303.4	25203.3	21652.8	17609.5
72.5°	6221.3	6226.6	8457.6	13963.6	21101.7	28245.1	28372.3	25950.5	21652.8	15961.4	9973.2
75°	1838.8	1860.0	3131.9	6846.7	13640.3	21451.4	21594.5	19697.4	15007.5	8245.7	3402.1
77.5°	673.0	673.0	1038.7	2570.1	6804.3	13539.6	13529.0	12092.9	7599.1	2792.7	794.9
80°	349.8	365.6	540.5	1049.3	2946.4	7053.3	7318.3	5919.3	2888.1	1176.4	233.2
82.5°	143.1	159.0	296.8	540.5	1414.9	2474.8	2707.9	2321.1	1255.9	821.4	106.0
85°	42.4	47.7	143.1	302.1	556.4	620.0	688.9	779.0	789.6	635.9	47.7
87.5°	5.3	5.3	58.3	100.7	121.9	132.5	153.7	153.7	402.7	445.1	26.5
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: P483683

CATALOG NUMBER: IFLD-L-SA7D-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1	3614.1
2.5°	3640.6	3614.1	3571.7	3476.3	3455.1	3386.2	3380.9	3317.3	3338.5	3296.1	3280.2
5°	3614.1	3555.8	3439.2	3365.0	3290.8	3243.2	3211.4	3184.9	3179.6	3158.4	3147.8
7.5°	3661.8	3582.3	3402.1	3285.5	3158.4	3116.0	3047.1	3041.8	3004.7	2967.6	2967.6
10°	3820.8	3677.7	3481.6	3285.5	3121.3	2983.5	2824.5	2707.9	2665.5	2570.1	2580.7
12.5°	3948.0	3820.8	3534.6	3333.2	3084.2	2771.5	2421.8	2151.5	2024.3	1902.4	1950.1
15°	4128.1	3942.7	3635.3	3343.8	2941.1	2400.6	1828.2	1526.2	1409.6	1383.1	1377.8
17.5°	4324.2	4128.1	3762.5	3317.3	2649.6	1854.7	1346.0	1171.1	1192.3	1224.1	1218.8
20°	4541.5	4303.0	3857.9	3227.3	2188.6	1346.0	1102.2	1096.9	1128.7	1176.4	1187.0
22.5°	4769.3	4562.7	3974.4	2957.0	1632.2	1081.1	1059.9	1059.9	1081.1	1139.3	1128.7
25°	5023.7	4748.1	4032.7	2538.3	1171.1	996.3	1006.9	1028.1	1038.7	1086.3	1091.6
27.5°	5219.8	4954.8	4048.6	2034.9	953.9	922.1	948.6	975.1	991.0	1028.1	1044.0
30°	5400.0	5214.5	3963.9	1515.6	874.4	858.5	869.1	906.2	938.0	969.8	969.8
32.5°	5627.8	5362.9	3767.8	1075.8	826.7	800.2	794.9	810.8	847.9	885.0	885.0
35°	5861.0	5611.9	3455.1	863.8	784.3	747.2	726.0	710.1	726.0	752.5	773.7
37.5°	6200.1	5988.2	3063.0	794.9	752.5	699.5	657.1	620.0	593.5	588.2	604.1
40°	6682.4	6412.1	2559.5	747.2	715.4	651.8	588.2	524.6	466.3	429.2	434.5
42.5°	7413.7	7037.4	2013.7	720.7	688.9	598.8	508.7	418.6	344.5	307.4	307.4
45°	8457.6	7864.1	1478.5	694.2	657.1	535.2	418.6	312.7	238.5	217.3	222.6
47.5°	10031.5	8860.4	1059.9	651.8	614.7	466.3	328.6	222.6	174.9	164.3	169.6
50°	12087.6	10042.1	826.7	604.1	561.7	392.1	243.8	164.3	137.8	132.5	137.8
52.5°	14244.4	11234.4	726.0	561.7	482.2	312.7	180.2	132.5	116.6	111.3	116.6
55°	16088.6	12002.8	630.6	498.1	386.8	233.2	143.1	116.6	100.7	84.8	84.8
57.5°	17953.9	12389.7	498.1	413.3	286.2	174.9	121.9	100.7	84.8	68.9	63.6
60°	19469.5	12665.2	355.1	307.4	201.4	137.8	106.0	90.1	68.9	53.0	47.7
62.5°	20465.8	11875.7	259.7	233.2	148.4	116.6	90.1	74.2	53.0	37.1	37.1
65°	19972.9	10784.0	201.4	164.3	111.3	90.1	74.2	53.0	37.1	21.2	15.9
67.5°	17922.1	8786.2	164.3	121.9	84.8	68.9	58.3	42.4	21.2	5.3	5.3
70°	13370.0	6438.6	132.5	90.1	68.9	53.0	42.4	26.5	10.6	5.3	0.0
72.5°	7313.0	3524.0	106.0	74.2	53.0	42.4	31.8	21.2	10.6	0.0	0.0
75°	2416.5	938.0	79.5	53.0	31.8	26.5	21.2	15.9	5.3	0.0	0.0
77.5°	582.9	243.8	63.6	47.7	26.5	15.9	10.6	5.3	5.3	0.0	0.0
80°	180.2	100.7	47.7	31.8	21.2	15.9	5.3	0.0	0.0	0.0	0.0
82.5°	74.2	47.7	21.2	21.2	15.9	5.3	0.0	0.0	0.0	0.0	0.0
85°	37.1	26.5	15.9	10.6	10.6	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	10.6	5.3	5.3	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)