

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: P483517

Luminaire Tested: **IFLD-S-SA6D-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483517
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

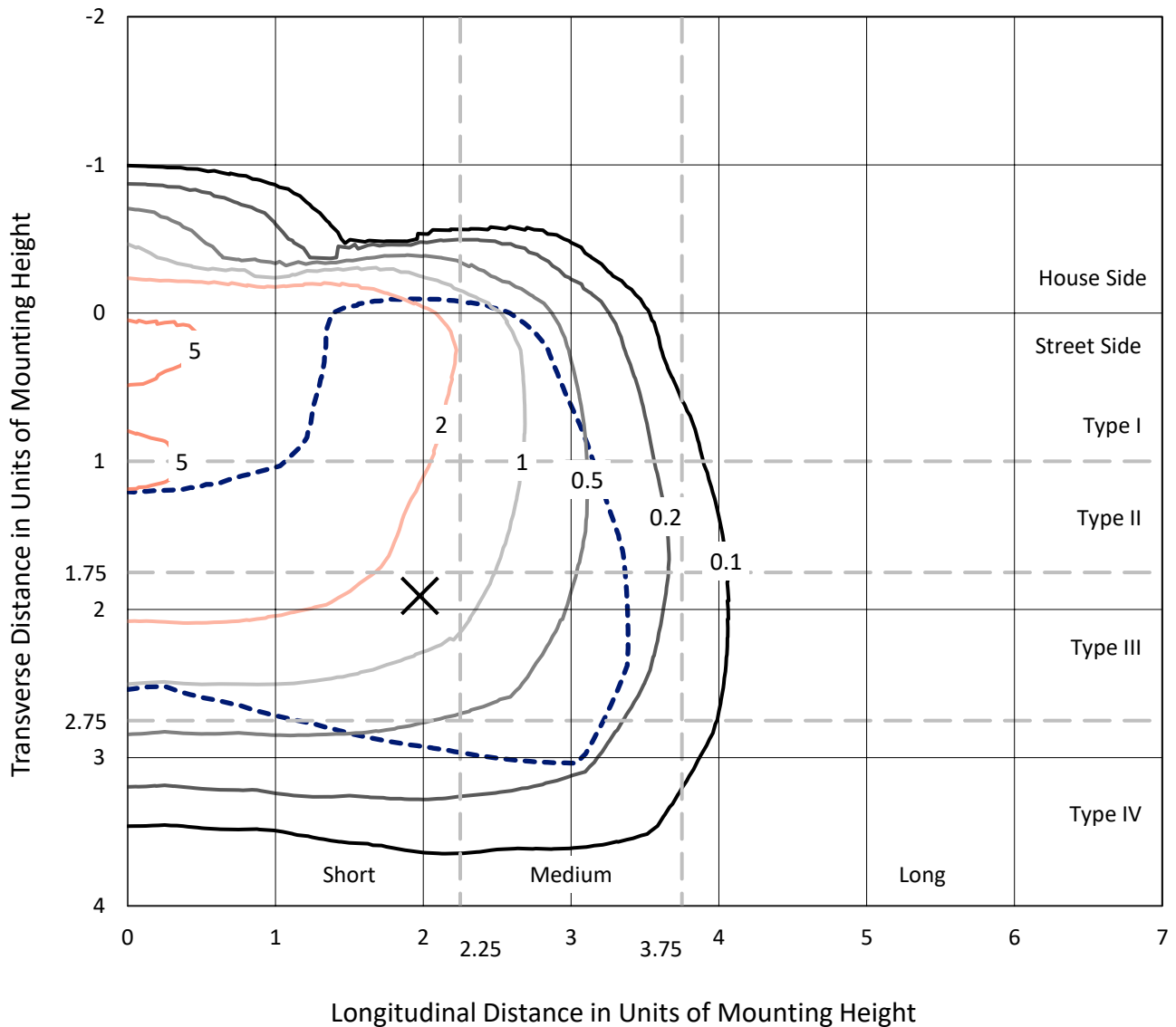
Lumens per Lamp: N/A
Luminaire Lumens: 28212.8 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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

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Iso-Footcandle Lines of Horizontal Illumination

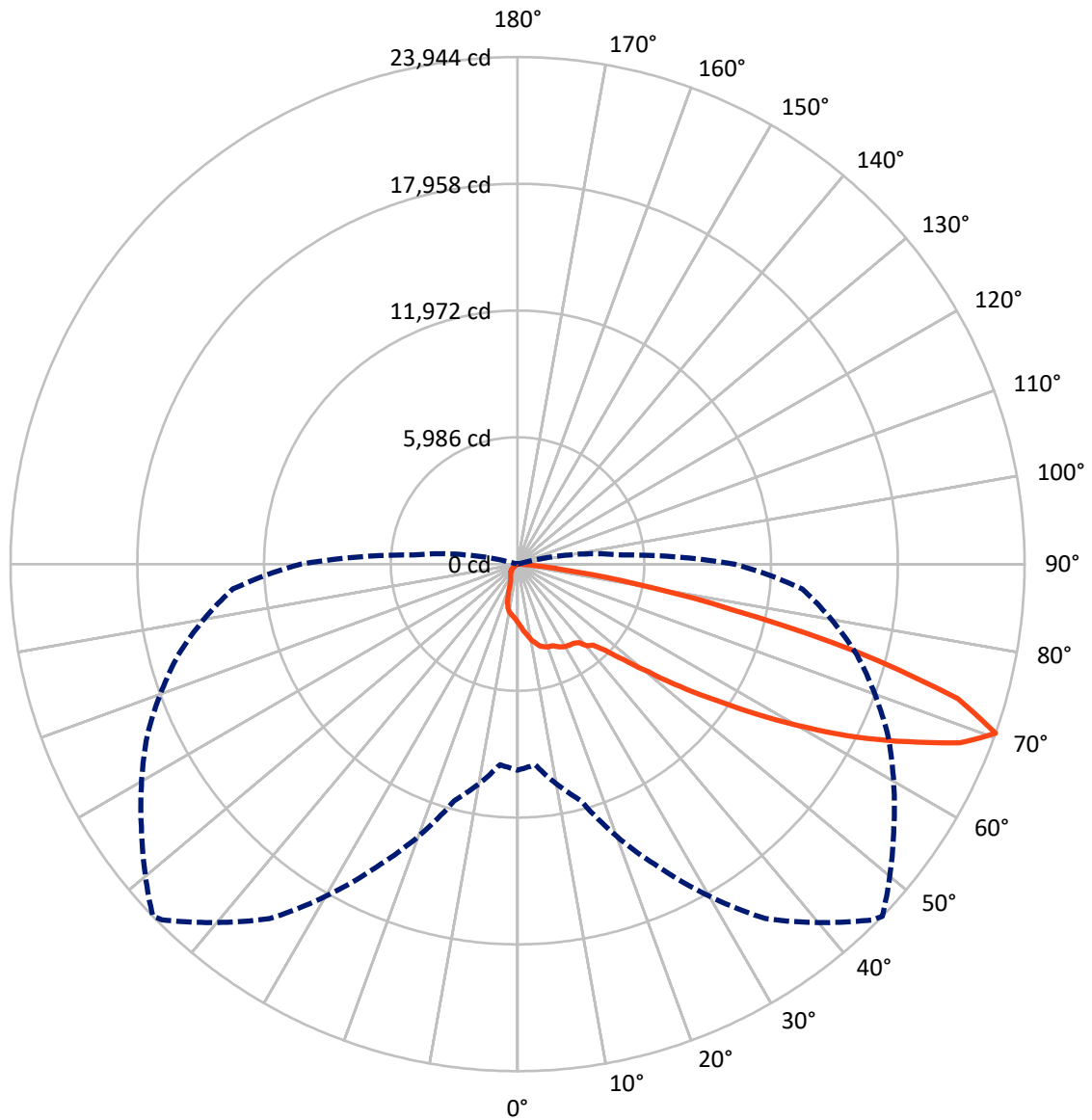
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
House Side	Lumens	2807.2	0.0	2807.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	25405.5	0.0	25405.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	28212.8	0.0	28212.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	1.0
10°-20°	834.0	3.0
20°-30°	1335.9	4.7
30°-40°	1906.8	6.8
40°-50°	3292.5	11.7
50°-60°	6303.7	22.3
60°-70°	9334.8	33.1
70°-80°	4623.4	16.4
80°-90°	305.5	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°	28212.8	100.0
0°-180°	28212.8	100.0



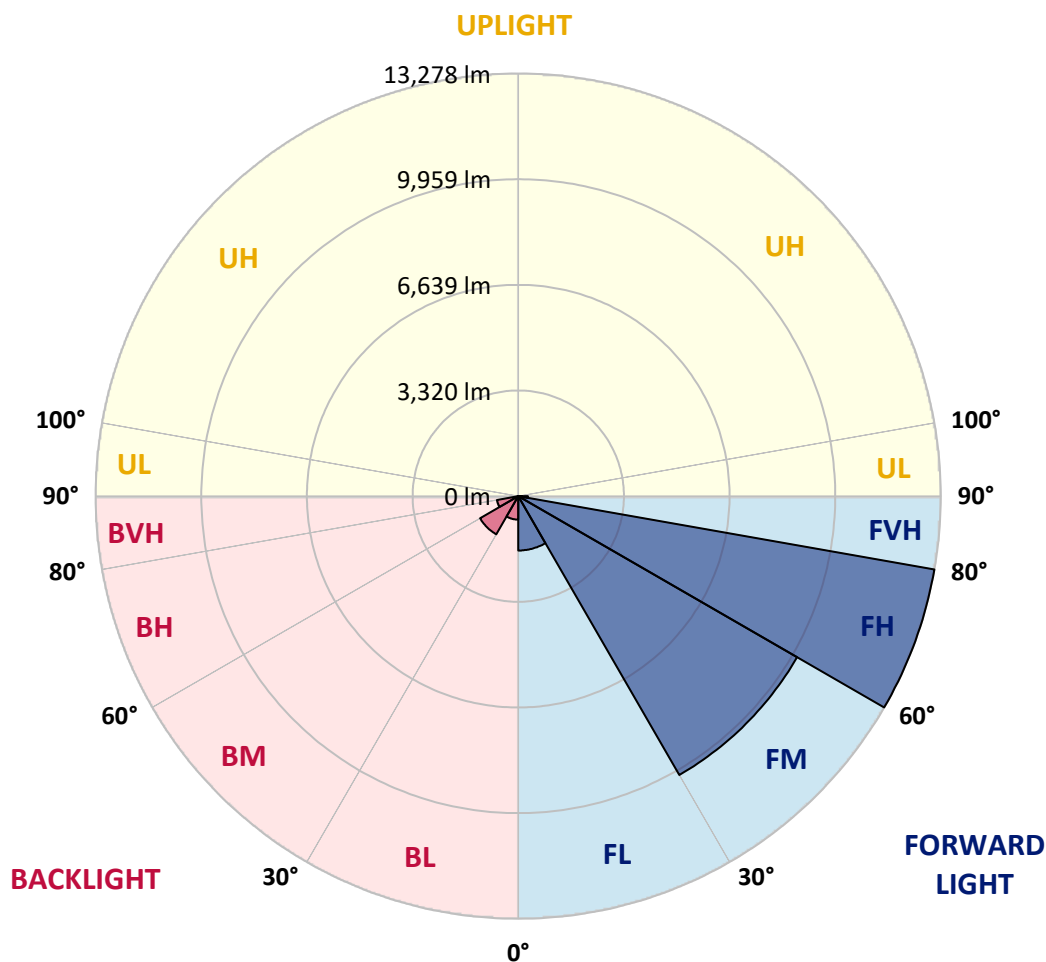
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.5	6.1			
FM (30°-60°)	10117.0	35.9			
FH (60°-80°)	13278.4	47.1			G5
FVH (80°-90°)	301.6	1.1			G3/500
BL (0°-30°)	737.5	2.6	B2/1000		
BM (30°-60°)	1386.0	4.9	B2/2500		
BH (60°-80°)	679.9	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6
2.5°	3090.4	3070.1	3037.6	3025.5	2993.0	2976.7	2952.4	2940.2	2895.5	2850.8	2822.4
5°	3468.1	3419.4	3435.6	3386.9	3281.3	3196.0	3192.0	3098.6	2997.0	2915.8	2806.2
7.5°	3849.8	3809.2	3748.3	3679.3	3561.5	3435.6	3399.1	3309.7	3167.6	3025.5	2879.3
10°	4138.2	4109.7	4057.0	3959.5	3797.1	3654.9	3659.0	3508.7	3358.5	3196.0	2997.0
12.5°	4316.9	4329.0	4251.9	4154.4	4012.3	3833.6	3829.5	3728.0	3557.5	3386.9	3151.3
15°	4495.5	4540.2	4422.4	4308.7	4126.0	3996.0	4020.4	3898.6	3732.1	3537.1	3277.2
17.5°	4524.0	4536.2	4511.8	4345.3	4211.3	4101.6	4105.7	4024.5	3898.6	3687.4	3464.0
20°	4475.2	4467.1	4438.7	4316.9	4227.5	4162.5	4166.6	4146.3	4077.3	3906.7	3602.1
22.5°	4333.1	4333.1	4296.6	4215.3	4174.7	4235.6	4186.9	4264.1	4191.0	4089.4	3837.7
25°	4219.4	4264.1	4243.8	4191.0	4207.2	4288.4	4312.8	4385.9	4373.7	4247.8	4000.1
27.5°	4341.2	4288.4	4300.6	4239.7	4300.6	4422.4	4434.6	4487.4	4483.4	4381.8	4146.3
30°	4422.4	4471.2	4377.8	4243.8	4308.7	4515.9	4507.7	4576.8	4609.3	4487.4	4284.4
32.5°	4682.4	4641.7	4564.6	4385.9	4394.0	4511.8	4548.3	4637.7	4658.0	4584.9	4418.4
35°	5214.3	5153.4	4816.4	4548.3	4507.7	4564.6	4588.9	4763.6	4800.1	4718.9	4560.5
37.5°	6034.7	5896.6	5490.5	4897.6	4714.8	4702.7	4702.7	4934.1	5072.2	4885.4	4771.7
40°	7208.3	7013.4	6574.8	5543.3	4986.9	5035.7	5084.4	5210.3	5194.0	5072.2	5047.8
42.5°	8702.8	8552.5	8077.4	6627.6	5506.7	5263.1	5222.5	5393.0	5648.9	5600.1	5583.9
45°	9949.5	9957.6	9653.0	8113.9	6404.2	5786.9	5815.4	5945.3	6375.8	6339.2	6335.2
47.5°	10859.2	10745.5	10700.8	9547.5	7711.9	6781.9	6741.3	6830.6	7391.1	7622.5	7728.1
50°	11687.6	11610.4	11504.9	10940.4	9283.5	8028.6	7988.0	7996.1	8853.0	9177.9	9437.8
52.5°	12715.0	12812.5	12463.3	12118.1	11318.1	9649.0	9604.3	9445.9	10509.9	10956.6	11265.3
55°	13982.1	13799.3	13405.4	13584.1	13263.3	11399.3	11318.1	11131.2	12398.3	12585.1	12910.0
57.5°	14262.3	14124.2	14530.3	15163.8	15472.5	13454.1	13421.7	13084.6	13986.1	13815.6	14733.4
60°	14960.8	14997.3	15561.8	16820.7	17356.8	15825.8	15667.4	15074.5	15525.3	15557.8	16536.5
62.5°	15679.6	15594.3	16857.3	18067.5	18891.9	18071.5	18018.7	16841.0	17352.7	16938.5	18234.0
65°	15151.7	15281.6	17088.8	19115.2	20881.7	20268.5	20223.9	18542.6	18822.8	18307.1	18924.3
67.5°	13275.5	13011.5	15541.5	18636.0	21905.1	22571.1	22522.4	20398.5	19651.3	18298.9	17490.8
70°	9730.2	9502.8	11565.8	15781.1	20439.1	23748.8	23943.8	21689.9	19314.2	16593.3	13494.8
72.5°	4767.6	4771.7	6481.4	10700.8	16171.0	21645.2	21742.7	19886.8	16593.3	12231.8	7642.8
75°	1409.2	1425.4	2400.1	5246.8	10453.1	16439.0	16548.6	15094.8	11500.8	6318.9	2607.2
77.5°	515.7	515.7	796.0	1969.6	5214.3	10375.9	10367.8	9267.2	5823.5	2140.2	609.2
80°	268.0	280.2	414.2	804.1	2257.9	5405.2	5608.3	4536.2	2213.3	901.5	178.7
82.5°	109.6	121.8	227.4	414.2	1084.3	1896.5	2075.2	1778.7	962.5	629.5	81.2
85°	32.5	36.5	109.6	231.5	426.4	475.1	527.9	597.0	605.1	487.3	36.5
87.5°	4.1	4.1	44.7	77.2	93.4	101.5	117.8	117.8	308.6	341.1	20.3
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°	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6
2.5°	2789.9	2769.6	2737.1	2664.0	2647.8	2595.0	2590.9	2542.2	2558.4	2526.0	2513.8
5°	2769.6	2724.9	2635.6	2578.7	2521.9	2485.3	2461.0	2440.7	2436.6	2420.4	2412.2
7.5°	2806.2	2745.2	2607.2	2517.8	2420.4	2387.9	2335.1	2331.0	2302.6	2274.2	2274.2
10°	2928.0	2818.3	2668.1	2517.8	2391.9	2286.4	2164.5	2075.2	2042.7	1969.6	1977.7
12.5°	3025.5	2928.0	2708.7	2554.4	2363.5	2123.9	1855.9	1648.8	1551.3	1457.9	1494.5
15°	3163.5	3021.4	2785.9	2562.5	2253.9	1839.6	1401.1	1169.6	1080.2	1059.9	1055.9
17.5°	3313.8	3163.5	2883.3	2542.2	2030.5	1421.4	1031.5	897.5	913.7	938.1	934.0
20°	3480.3	3297.5	2956.4	2473.2	1677.2	1031.5	844.7	840.6	865.0	901.5	909.7
22.5°	3654.9	3496.5	3045.8	2266.0	1250.8	828.4	812.2	812.2	828.4	873.1	865.0
25°	3849.8	3638.7	3090.4	1945.2	897.5	763.5	771.6	787.8	796.0	832.5	836.6
27.5°	4000.1	3797.1	3102.6	1559.4	731.0	706.6	726.9	747.2	759.4	787.8	800.0
30°	4138.2	3996.0	3037.6	1161.5	670.1	657.9	666.0	694.4	718.8	743.2	743.2
32.5°	4312.8	4109.7	2887.4	824.4	633.5	613.2	609.2	621.3	649.8	678.2	678.2
35°	4491.5	4300.6	2647.8	661.9	601.0	572.6	556.4	544.2	556.4	576.7	592.9
37.5°	4751.4	4588.9	2347.3	609.2	576.7	536.1	503.6	475.1	454.8	450.8	463.0
40°	5120.9	4913.8	1961.5	572.6	548.2	499.5	450.8	402.0	357.4	328.9	333.0
42.5°	5681.4	5393.0	1543.2	552.3	527.9	458.9	389.9	320.8	264.0	235.5	235.5
45°	6481.4	6026.5	1133.0	532.0	503.6	410.2	320.8	239.6	182.7	166.5	170.6
47.5°	7687.5	6790.0	812.2	499.5	471.1	357.4	251.8	170.6	134.0	125.9	130.0
50°	9263.2	7695.6	633.5	463.0	430.5	300.5	186.8	125.9	105.6	101.5	105.6
52.5°	10916.0	8609.4	556.4	430.5	369.6	239.6	138.1	101.5	89.3	85.3	89.3
55°	12329.2	9198.2	483.3	381.7	296.5	178.7	109.6	89.3	77.2	65.0	65.0
57.5°	13758.7	9494.7	381.7	316.8	219.3	134.0	93.4	77.2	65.0	52.8	48.7
60°	14920.2	9705.8	272.1	235.5	154.3	105.6	81.2	69.0	52.8	40.6	36.5
62.5°	15683.6	9100.7	199.0	178.7	113.7	89.3	69.0	56.9	40.6	28.4	28.4
65°	15306.0	8264.2	154.3	125.9	85.3	69.0	56.9	40.6	28.4	16.2	12.2
67.5°	13734.4	6733.2	125.9	93.4	65.0	52.8	44.7	32.5	16.2	4.1	4.1
70°	10245.9	4934.1	101.5	69.0	52.8	40.6	32.5	20.3	8.1	4.1	0.0
72.5°	5604.2	2700.6	81.2	56.9	40.6	32.5	24.4	16.2	8.1	0.0	0.0
75°	1851.8	718.8	60.9	40.6	24.4	20.3	16.2	12.2	4.1	0.0	0.0
77.5°	446.7	186.8	48.7	36.5	20.3	12.2	8.1	4.1	4.1	0.0	0.0
80°	138.1	77.2	36.5	24.4	16.2	12.2	4.1	0.0	0.0	0.0	0.0
82.5°	56.9	36.5	16.2	16.2	12.2	4.1	0.0	0.0	0.0	0.0	0.0
85°	28.4	20.3	12.2	8.1	8.1	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	8.1	4.1	4.1	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)