

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: P484063

Luminaire Tested: **IFLD-S-SA6D-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484063
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

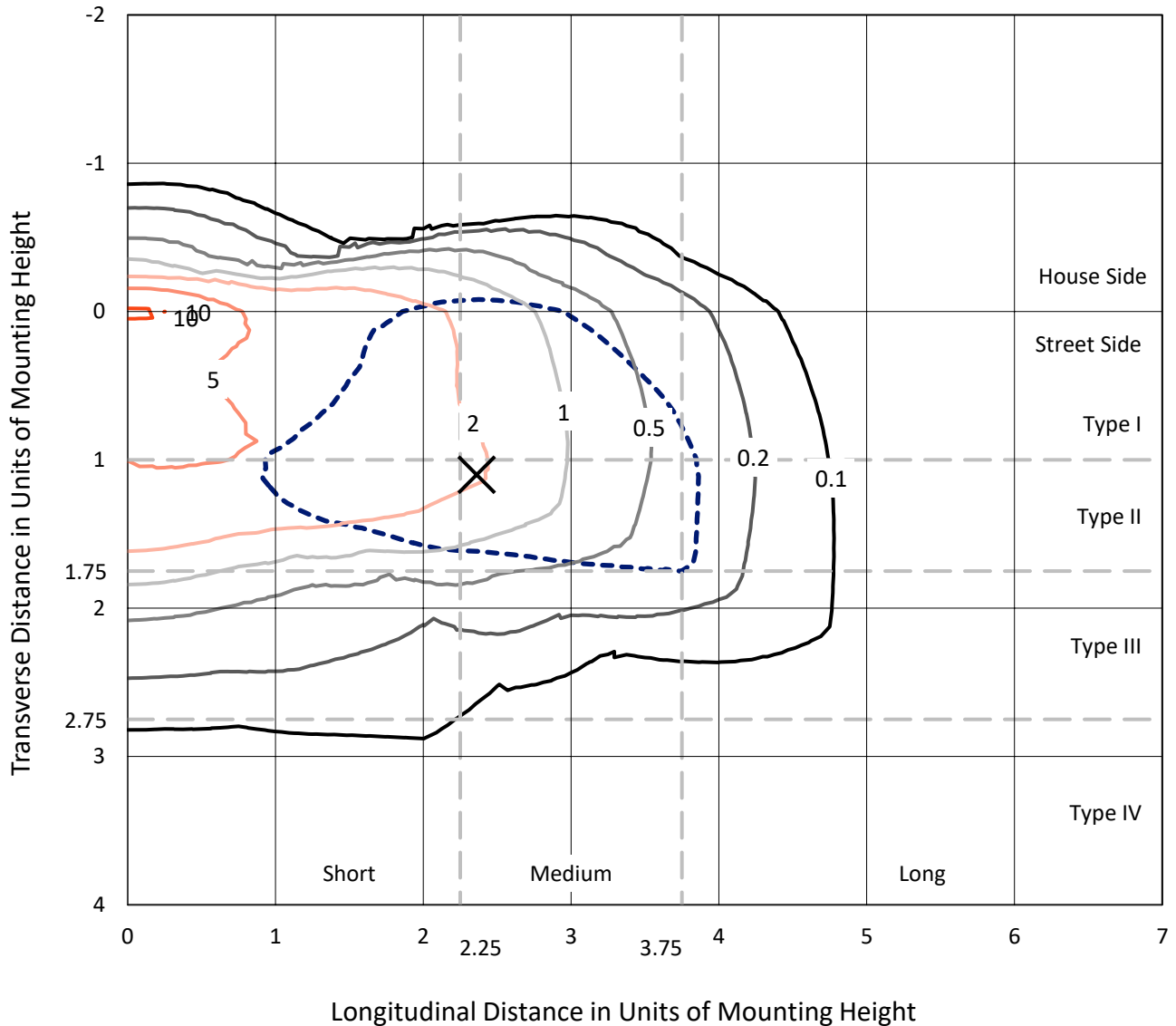
Lumens per Lamp: N/A
Luminaire Lumens: 38493.2 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P484063
 CATALOG NUMBER: IFLD-S-SA6D-750-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

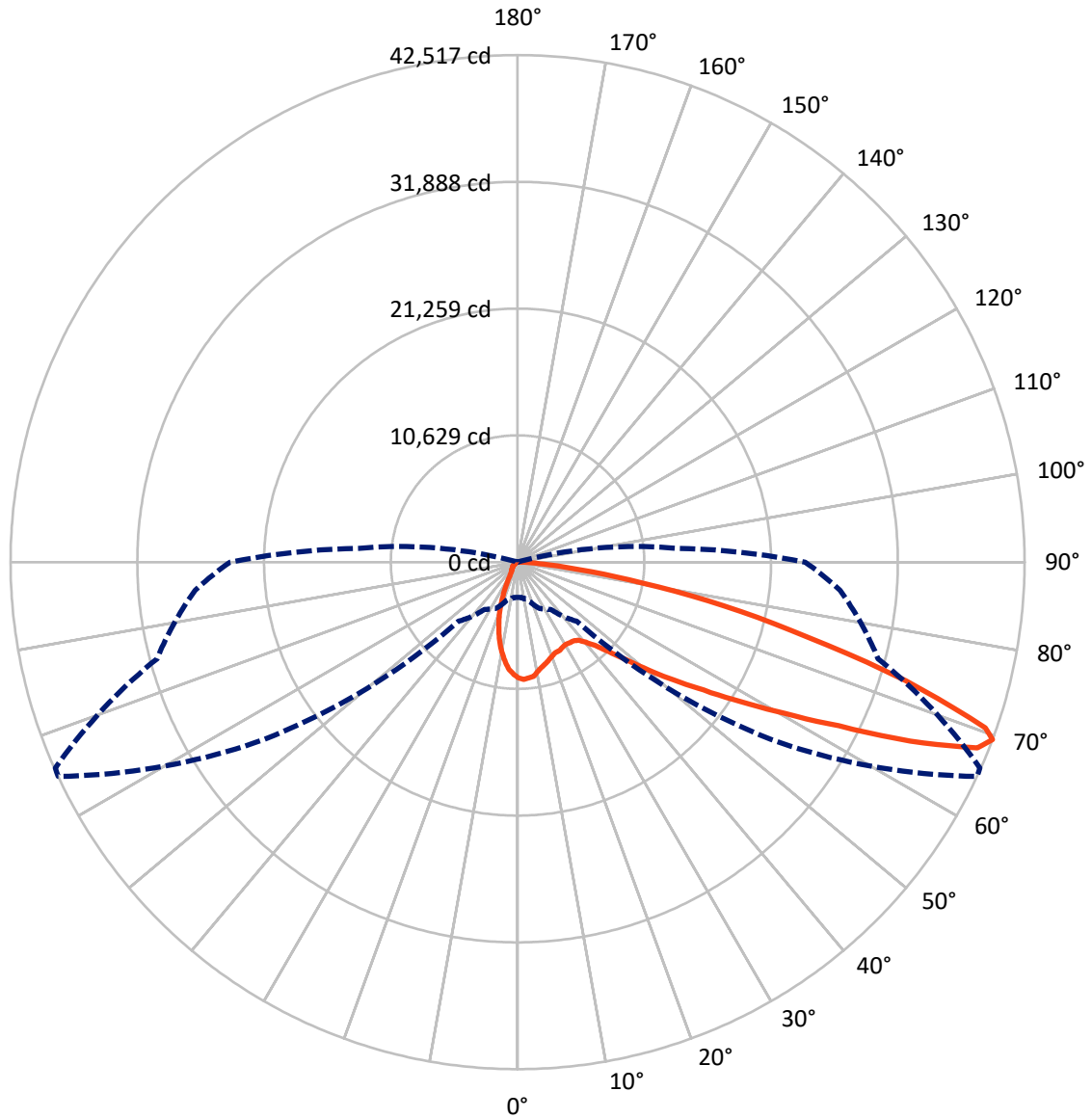
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P484063
CATALOG NUMBER: IFLD-S-SA6D-750-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4669.5	0.0	4669.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33823.8	0.0	33823.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	38493.2	0.0	38493.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.2	2.1
10°-20°	1737.7	4.5
20°-30°	2419.2	6.3
30°-40°	3428.3	8.9
40°-50°	5402.8	14.0
50°-60°	8767.0	22.8
60°-70°	9790.9	25.4
70°-80°	5513.4	14.3
80°-90°	639.8	1.7
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°	38493.2	100.0
0°-180°	38493.2	100.0

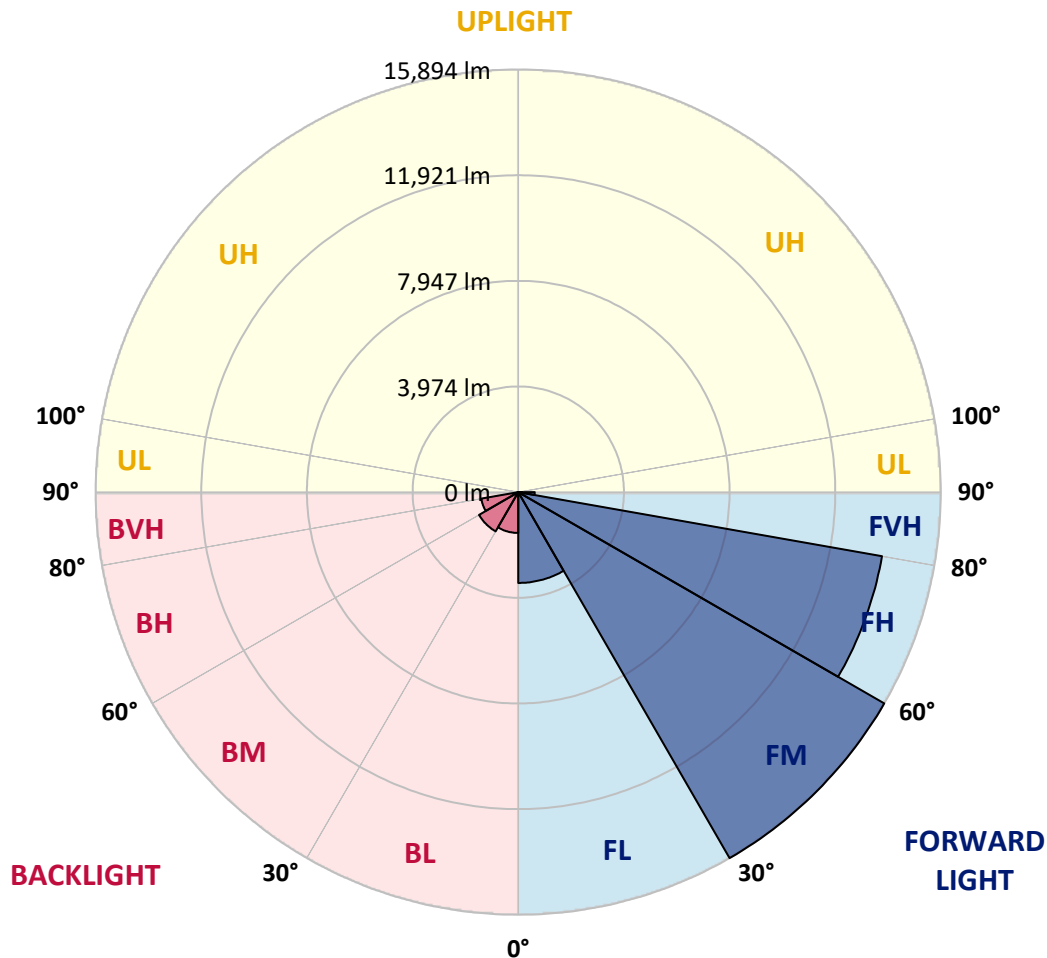


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.9	8.9			
FM (30°-60°)	15894.2	41.3			
FH (60°-80°)	13891.5	36.1			G5
FVH (80°-90°)	622.1	1.6			G4/750
BL (0°-30°)	1535.2	4.0	B3/2500		
BM (30°-60°)	1703.9	4.4	B2/2500		
BH (60°-80°)	1412.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	17.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0
2.5°	9346.7	9419.4	9440.2	9512.9	9549.3	9705.0	9793.3	9845.2	9819.3	9876.4	9881.6
5°	8682.1	8640.5	8749.6	8827.5	8993.6	9263.7	9538.9	9751.8	9850.4	9943.9	9928.3
7.5°	7970.7	7949.9	8059.0	8235.5	8386.1	8713.2	9154.6	9679.1	9658.3	9886.8	9954.3
10°	7482.6	7503.4	7539.7	7716.3	7939.5	8271.9	8822.3	9310.4	9419.4	9902.4	10037.4
12.5°	7036.0	7072.4	7139.9	7321.6	7581.2	7924.0	8458.8	9030.0	9196.2	9814.1	10084.1
15°	6890.6	6807.5	6942.6	7077.6	7347.6	7653.9	8105.7	8817.1	8889.8	9710.2	10162.0
17.5°	6771.2	6719.3	6781.6	6890.6	7176.2	7425.5	7851.3	8588.6	8723.6	9668.7	10151.6
20°	6807.5	6760.8	6786.8	6869.9	6999.7	7233.3	7628.0	8370.5	8515.9	9476.6	10136.0
22.5°	6911.4	6947.7	6901.0	6921.8	6963.3	7082.8	7508.6	8214.8	8339.4	9440.2	10224.3
25°	7378.7	7316.4	7254.1	7228.1	6984.1	7036.0	7472.2	8204.4	8292.6	9310.4	10151.6
27.5°	7866.8	7814.9	7789.0	7638.4	7306.0	7150.3	7477.4	8059.0	8178.4	9258.5	10063.3
30°	8458.8	8526.3	8422.5	8240.7	7778.6	7394.3	7534.5	7986.3	8152.4	9061.2	10006.2
32.5°	9081.9	9118.3	9170.2	9035.2	8438.0	7763.0	7705.9	8053.8	8064.2	9061.2	9876.4
35°	9788.1	9736.2	9871.2	9881.6	9357.1	8417.3	8033.0	8100.5	8209.6	9019.6	9829.7
37.5°	10395.7	10483.9	10639.7	10889.0	10348.9	9341.6	8541.9	8318.6	8365.3	9211.7	9866.0
40°	11060.3	11148.6	11501.7	11750.9	11444.6	10380.1	9315.6	8827.5	8863.8	9497.3	10052.9
42.5°	11792.5	11963.8	12384.4	12820.6	12737.5	11699.0	10312.6	9575.2	9559.6	10208.7	10437.2
45°	12784.3	13012.7	13469.7	13973.4	14046.1	13210.1	11641.9	10691.6	10743.6	11138.2	11231.7
47.5°	14165.5	14155.1	14601.7	15162.5	15583.1	14778.2	13230.8	12192.3	12187.1	12607.7	12410.4
50°	15500.0	15505.2	15624.6	16273.7	17364.2	16954.0	15198.8	14186.3	14129.2	14336.9	14020.1
52.5°	16117.9	16045.2	15957.0	16741.1	18735.0	19695.7	17691.3	16445.1	16398.3	16273.7	16190.6
55°	15468.9	15494.8	15489.6	16304.9	19456.8	22588.0	20890.0	18932.4	18854.5	18465.0	18579.3
57.5°	13386.6	13303.5	13485.3	14757.5	18631.2	24561.2	25464.7	22068.7	21866.2	20573.2	20313.6
60°	9964.7	9990.6	10141.2	11641.9	16580.1	24976.6	29842.1	25750.3	24877.9	22058.3	21700.0
62.5°	6958.1	6906.2	6963.3	7804.5	11854.8	23314.9	32801.9	30226.3	29385.1	23745.9	23538.2
65°	4979.7	4912.2	5140.7	5654.8	7119.1	17826.3	33222.5	36187.5	35434.5	26440.9	25942.4
67.5°	3582.9	3572.5	3837.4	4772.0	5057.6	10265.8	30106.9	41587.8	41130.9	29639.6	27406.7
69°	2965.0	2970.2	3224.6	4273.5	4829.2	7010.1	25906.1	42517.3	42434.2	31290.8	27131.5
70°	2585.9	2606.7	2902.7	3977.6	4735.7	5763.8	22333.5	41603.4	41520.3	31612.8	26222.8
72.5°	1594.1	1609.7	1999.2	3188.3	4502.0	4704.5	13355.5	34037.7	34323.3	30138.1	22593.2
75°	763.3	768.5	1048.9	2305.5	4341.0	4460.5	7155.5	25116.8	25719.1	24332.7	17655.0
77.5°	405.0	405.0	503.7	1225.5	3515.4	4195.7	4247.6	17717.3	18215.8	15385.8	10037.4
80°	202.5	207.7	306.4	638.7	2180.9	4112.6	3318.1	10567.0	10837.0	6277.9	3126.0
82.5°	77.9	83.1	145.4	384.3	1132.0	3473.9	2913.1	5197.8	5130.3	1469.5	763.3
85°	10.4	10.4	51.9	228.5	482.9	1531.8	2404.2	2170.5	2097.8	321.9	368.7
87.5°	0.0	0.0	10.4	67.5	145.4	446.6	929.5	597.2	664.7	88.3	181.7
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°	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0	9705.0
2.5°	9855.6	9746.6	9580.4	9419.4	9248.1	9040.4	8811.9	8728.8	8583.4	8573.0	8656.1
5°	9845.2	9668.7	9377.9	9035.2	8547.1	8178.4	7778.6	7487.8	7264.5	7119.1	7155.5
7.5°	9897.2	9684.3	9180.6	8443.2	7814.9	7082.8	6464.8	6039.0	5649.6	5457.5	5436.7
10°	9814.1	9528.5	8791.1	7757.8	6833.5	5810.6	4907.0	4335.9	3754.3	3541.4	3551.8
12.5°	9860.8	9461.0	8370.5	7051.6	5779.4	4450.1	3370.0	2591.1	2045.9	1869.3	1848.6
15°	9892.0	9315.6	7965.5	6205.2	4611.1	3032.5	1952.4	1469.5	1298.2	1267.0	1261.8
17.5°	9772.5	9139.0	7394.3	5369.2	3416.8	1843.4	1298.2	1199.5	1168.3	1147.6	1137.2
20°	9767.3	9035.2	6901.0	4512.4	2279.6	1256.6	1121.6	1085.3	1038.5	1022.9	1022.9
22.5°	9679.1	8817.1	6309.1	3572.5	1453.9	1080.1	1007.4	950.3	898.3	877.6	872.4
25°	9653.1	8562.7	5753.4	2684.6	1106.0	965.8	893.1	810.1	747.7	716.6	701.0
27.5°	9580.4	8344.6	5192.6	1890.1	965.8	862.0	768.5	680.2	607.5	560.8	555.6
30°	9320.8	8116.1	4569.5	1308.5	877.6	763.3	659.5	555.6	482.9	451.8	441.4
32.5°	9211.7	7903.2	3889.3	1007.4	799.7	675.0	555.6	462.1	405.0	373.9	368.7
35°	9081.9	7591.6	3229.8	877.6	727.0	586.8	467.3	389.4	342.7	316.8	316.8
37.5°	9097.5	7342.4	2611.9	794.5	649.1	503.7	399.8	332.3	290.8	264.8	264.8
40°	9050.8	7145.1	2030.3	721.8	576.4	431.0	337.5	280.4	244.1	218.1	212.9
42.5°	9263.7	7093.1	1531.8	659.5	503.7	368.7	290.8	238.9	202.5	171.4	171.4
45°	9622.0	7176.2	1194.3	602.3	431.0	316.8	249.2	197.3	161.0	140.2	135.0
47.5°	10577.4	7503.4	934.7	555.6	368.7	275.2	207.7	161.0	129.8	109.0	103.9
50°	11963.8	8235.5	794.5	488.1	311.6	233.7	171.4	124.6	103.9	83.1	77.9
52.5°	13937.0	9466.2	721.8	431.0	259.6	192.1	135.0	98.7	77.9	62.3	57.1
55°	16086.8	11003.2	654.3	363.5	218.1	155.8	109.0	77.9	57.1	41.5	36.3
57.5°	17764.0	12332.5	597.2	301.2	176.5	124.6	83.1	57.1	41.5	26.0	20.8
60°	19597.0	13267.2	524.5	238.9	145.4	93.5	62.3	41.5	31.2	15.6	15.6
62.5°	21487.1	14362.8	431.0	186.9	114.2	72.7	46.7	31.2	20.8	5.2	5.2
65°	24114.6	15219.6	332.3	145.4	88.3	51.9	36.3	26.0	10.4	0.0	0.0
67.5°	24857.1	14799.0	244.1	114.2	62.3	36.3	26.0	15.6	5.2	0.0	0.0
69°	24114.6	13329.5	212.9	98.7	51.9	31.2	20.8	10.4	5.2	0.0	0.0
70°	22759.3	12187.1	186.9	83.1	46.7	31.2	15.6	10.4	5.2	0.0	0.0
72.5°	19036.2	9346.7	145.4	62.3	36.3	26.0	15.6	10.4	0.0	0.0	0.0
75°	13963.0	5774.2	109.0	46.7	31.2	20.8	15.6	10.4	0.0	0.0	0.0
77.5°	7482.6	2108.2	77.9	31.2	20.8	15.6	15.6	10.4	0.0	0.0	0.0
80°	2051.1	623.1	57.1	20.8	15.6	10.4	10.4	5.2	0.0	0.0	0.0
82.5°	560.8	161.0	36.3	20.8	15.6	10.4	5.2	0.0	0.0	0.0	0.0
85°	301.2	62.3	20.8	15.6	10.4	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	155.8	20.8	15.6	10.4	10.4	5.2	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)