

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: P484033

Luminaire Tested: **IFLD-L-SA7C-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484033
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

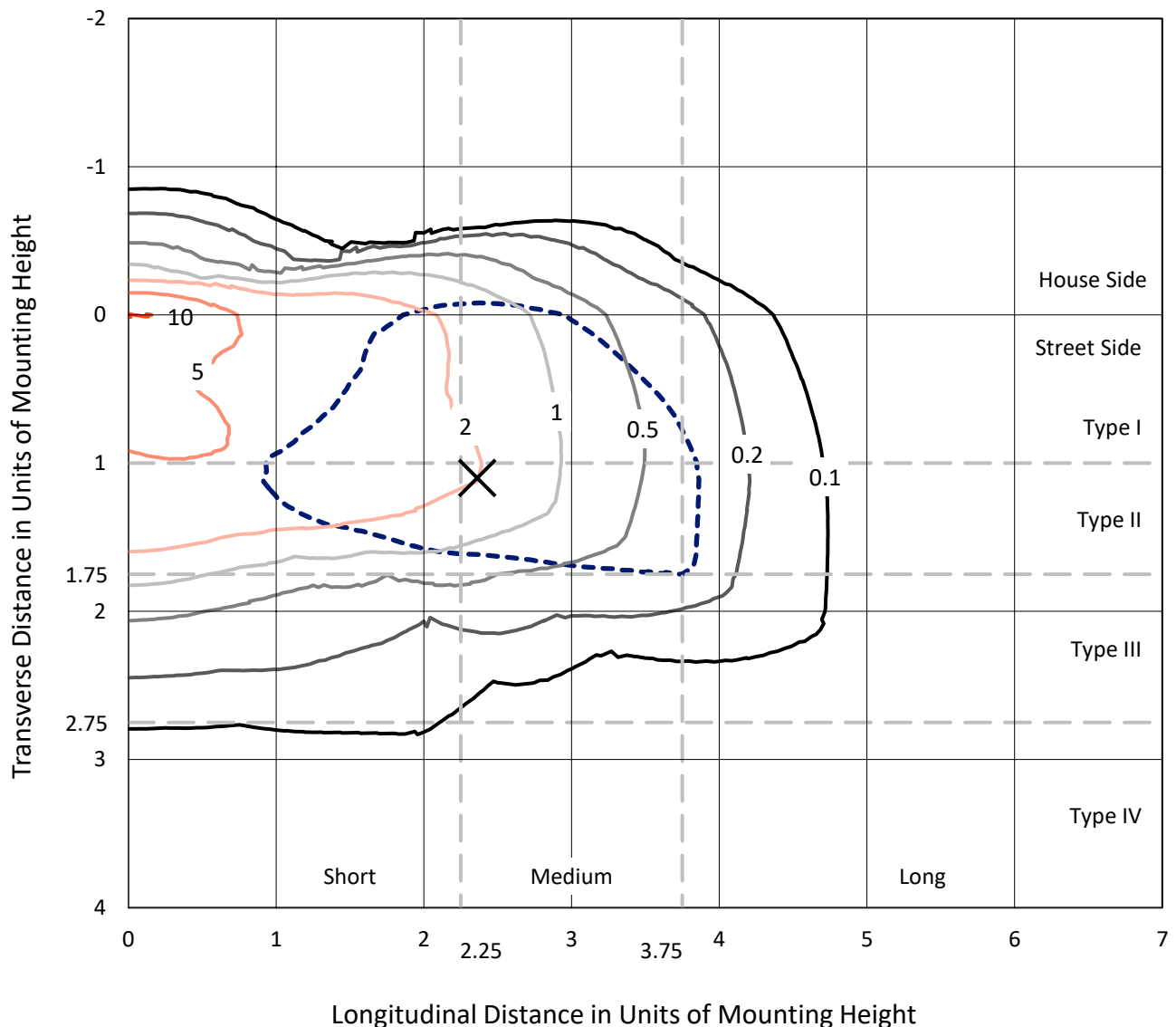
Lumens per Lamp: N/A
Luminaire Lumens: 36486.6 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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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 CATALOG NUMBER: IFLD-L-SA7C-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

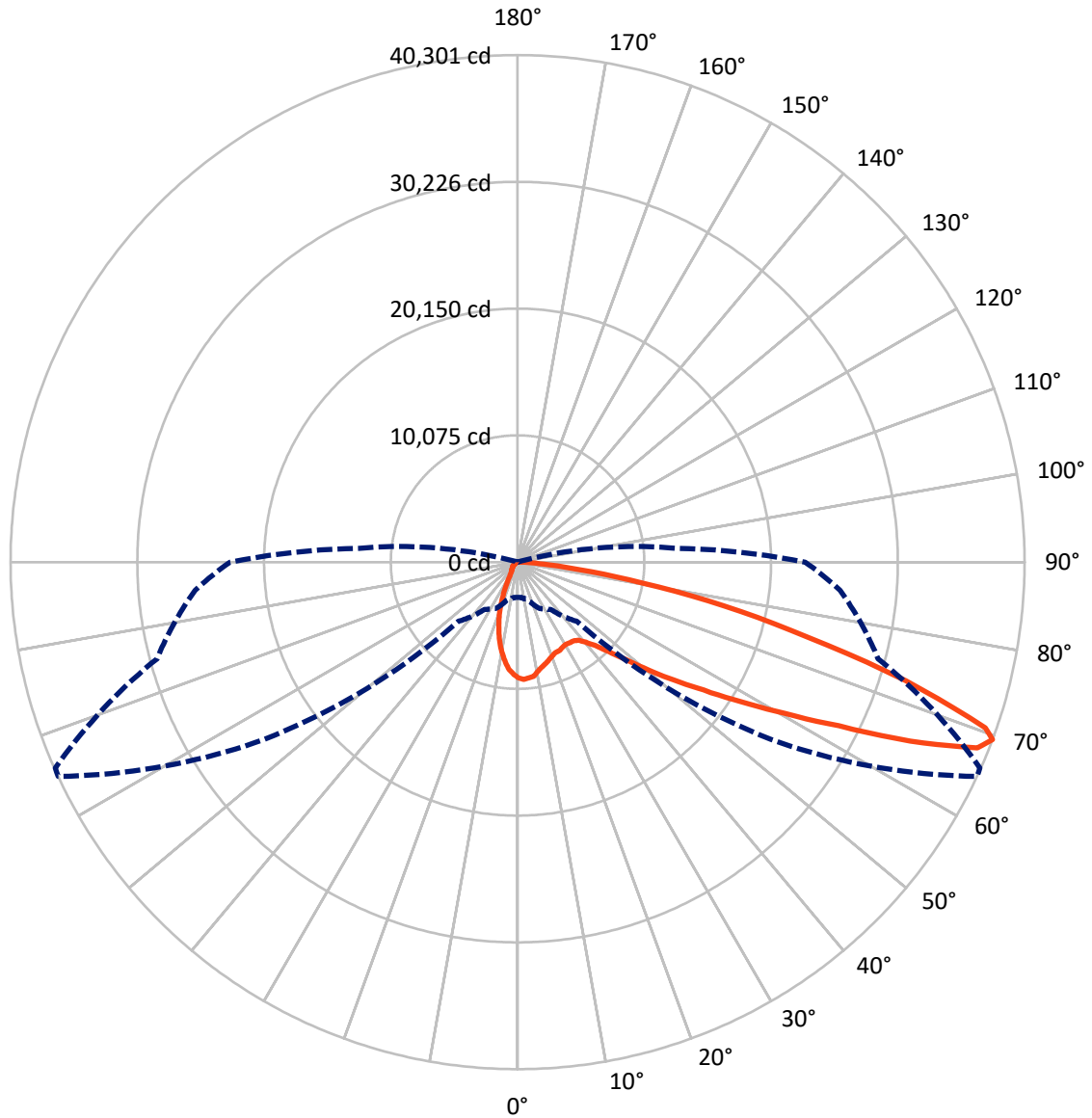
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P484033
CATALOG NUMBER: IFLD-L-SA7C-740-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	4426.0	0.0	4426.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	32060.6	0.0	32060.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	36486.6	0.0	36486.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.8	2.1
10°-20°	1647.1	4.5
20°-30°	2293.1	6.3
30°-40°	3249.6	8.9
40°-50°	5121.2	14.0
50°-60°	8309.9	22.8
60°-70°	9280.5	25.4
70°-80°	5226.0	14.3
80°-90°	606.4	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°	36486.6	100.0
0°-180°	36486.6	100.0

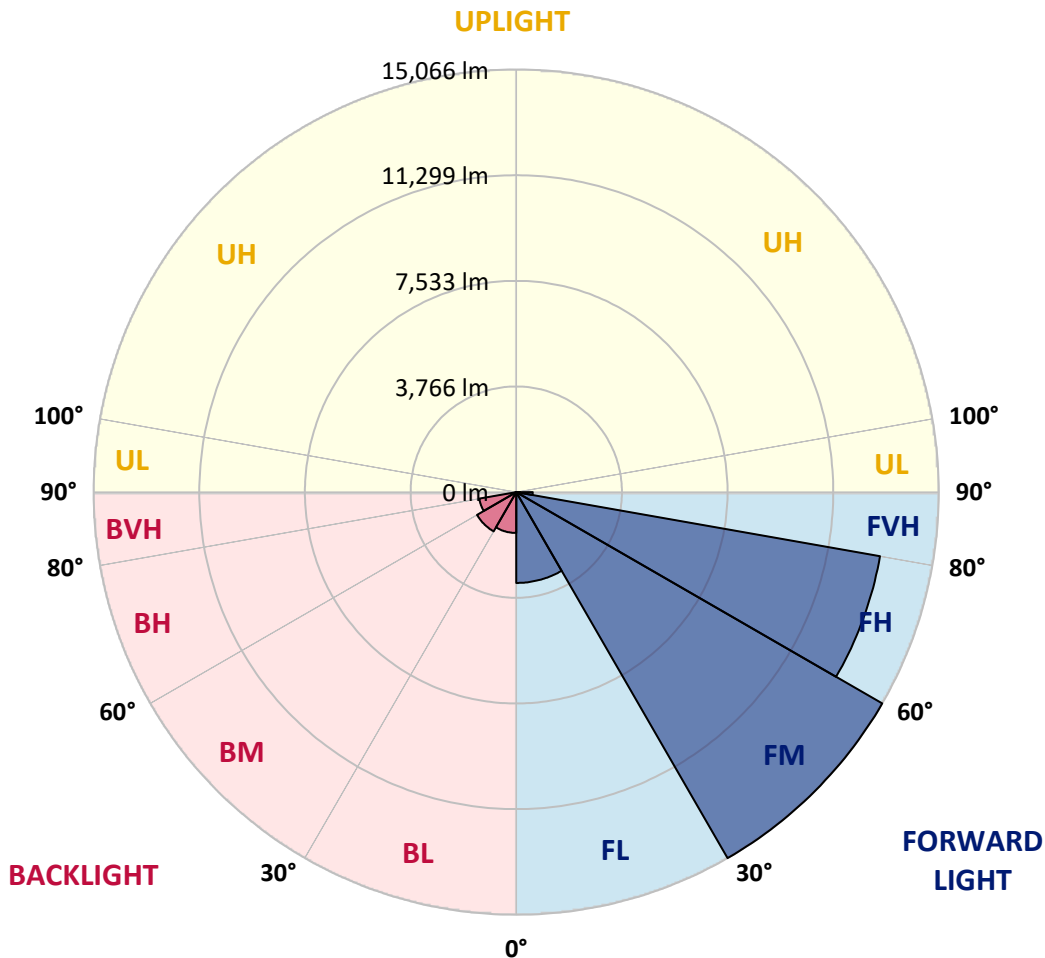


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3237.8	8.9			
FM (30°-60°)	15065.7	41.3			
FH (60°-80°)	13167.4	36.1			G5
FVH (80°-90°)	589.7	1.6			G4/750
BL (0°-30°)	1455.2	4.0	B3/2500		
BM (30°-60°)	1615.0	4.4	B2/2500		
BH (60°-80°)	1339.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	16.7	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°	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1
2.5°	8859.5	8928.4	8948.1	9017.0	9051.5	9199.1	9282.8	9332.0	9307.4	9361.5	9366.5
5°	8229.5	8190.1	8293.5	8367.3	8524.8	8780.8	9041.6	9243.4	9336.9	9425.5	9410.8
7.5°	7555.2	7535.5	7638.9	7806.2	7948.9	8259.0	8677.4	9174.5	9154.8	9371.4	9435.4
10°	7092.5	7112.2	7146.7	7314.0	7525.7	7840.7	8362.4	8825.1	8928.4	9386.2	9514.1
12.5°	6669.2	6703.7	6767.7	6939.9	7186.0	7510.9	8017.9	8559.3	8716.8	9302.5	9558.4
15°	6531.4	6452.7	6580.6	6708.6	6964.6	7255.0	7683.2	8357.5	8426.4	9204.0	9632.3
17.5°	6418.2	6369.0	6428.1	6531.4	6802.1	7038.4	7442.0	8140.9	8268.9	9164.7	9622.4
20°	6452.7	6408.4	6433.0	6511.7	6634.8	6856.3	7230.3	7934.2	8072.0	8982.6	9607.6
22.5°	6551.1	6585.6	6541.3	6561.0	6600.3	6713.5	7117.1	7786.5	7904.7	8948.1	9691.3
25°	6994.1	6935.0	6876.0	6851.4	6620.0	6669.2	7082.7	7776.7	7860.4	8825.1	9622.4
27.5°	7456.8	7407.5	7382.9	7240.2	6925.2	6777.5	7087.6	7638.9	7752.1	8775.8	9538.7
30°	8017.9	8081.8	7983.4	7811.1	7373.1	7008.9	7141.7	7570.0	7727.5	8588.8	9484.6
32.5°	8608.5	8642.9	8692.2	8564.2	7998.2	7358.3	7304.2	7633.9	7643.8	8588.8	9361.5
35°	9277.9	9228.7	9356.6	9366.5	8869.4	7978.5	7614.3	7678.2	7781.6	8549.4	9317.3
37.5°	9853.7	9937.4	10085.1	10321.3	9809.4	8854.6	8096.6	7885.0	7929.3	8731.5	9351.7
40°	10483.8	10567.4	10902.1	11138.4	10848.0	9839.0	8830.0	8367.3	8401.8	9002.2	9528.9
42.5°	11177.7	11340.2	11738.8	12152.3	12073.5	11089.2	9775.0	9076.1	9061.3	9676.6	9893.1
45°	12117.8	12334.4	12767.5	13245.0	13313.9	12521.4	11035.0	10134.3	10183.5	10557.6	10646.2
47.5°	13427.1	13417.2	13840.5	14372.1	14770.8	14007.9	12541.1	11556.7	11551.8	11950.5	11763.5
50°	14692.0	14696.9	14810.1	15425.4	16459.0	16070.2	14406.5	13446.8	13392.6	13589.5	13289.3
52.5°	15277.7	15208.8	15125.2	15868.4	17758.4	18669.0	16769.1	15587.8	15543.5	15425.4	15346.6
55°	14662.5	14687.1	14682.2	15454.9	18442.5	21410.5	19801.0	17945.4	17871.6	17502.5	17610.7
57.5°	12688.8	12610.0	12782.3	13988.2	17660.0	23280.8	24137.2	20918.3	20726.3	19500.8	19254.7
60°	9445.2	9469.8	9612.6	11035.0	15715.8	23674.6	28286.4	24407.9	23581.1	20908.4	20568.8
62.5°	6595.4	6546.2	6600.3	7397.7	11236.8	22099.6	31092.0	28650.7	27853.3	22508.1	22311.2
65°	4720.1	4656.2	4872.7	5360.0	6748.0	16897.1	31490.6	34301.1	33587.4	25062.6	24590.1
67.5°	3396.1	3386.3	3637.3	4523.3	4794.0	9730.7	28537.5	39419.9	38986.8	28094.5	25978.0
69°	2810.4	2815.4	3056.5	4050.8	4577.4	6644.6	24555.6	40300.9	40222.2	29659.7	25717.2
70°	2451.1	2470.8	2751.4	3770.2	4488.8	5463.4	21169.3	39434.7	39355.9	29964.8	24855.8
72.5°	1511.0	1525.8	1895.0	3022.1	4267.3	4459.3	12659.3	32263.4	32534.1	28567.0	21415.4
75°	723.5	728.4	994.2	2185.3	4114.7	4228.0	6782.4	23807.5	24378.4	23064.3	16734.6
77.5°	383.9	383.9	477.4	1161.6	3332.2	3976.9	4026.2	16793.7	17266.2	14583.7	9514.1
80°	192.0	196.9	290.4	605.4	2067.2	3898.2	3145.1	10016.2	10272.1	5950.6	2963.0
82.5°	73.8	78.8	137.8	364.2	1073.0	3292.8	2761.2	4926.9	4862.9	1392.9	723.5
85°	9.8	9.8	49.2	216.6	457.7	1452.0	2278.9	2057.4	1988.5	305.2	349.5
87.5°	0.0	0.0	9.8	64.0	137.8	423.3	881.0	566.0	630.0	83.7	172.3
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°	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1	9199.1
2.5°	9341.9	9238.5	9081.0	8928.4	8766.0	8569.1	8352.5	8273.8	8136.0	8126.1	8204.9
5°	9332.0	9164.7	8889.0	8564.2	8101.5	7752.1	7373.1	7097.5	6885.8	6748.0	6782.4
7.5°	9381.2	9179.4	8702.0	8003.1	7407.5	6713.5	6127.8	5724.2	5355.1	5173.0	5153.3
10°	9302.5	9031.8	8332.9	7353.4	6477.3	5507.7	4651.2	4109.8	3558.6	3356.8	3366.6
12.5°	9346.8	8967.8	7934.2	6684.0	5478.1	4218.1	3194.3	2456.1	1939.2	1771.9	1752.2
15°	9376.3	8830.0	7550.3	5881.7	4370.7	2874.4	1850.7	1392.9	1230.5	1201.0	1196.0
17.5°	9263.1	8662.6	7008.9	5089.3	3238.6	1747.3	1230.5	1137.0	1107.4	1087.8	1077.9
20°	9258.2	8564.2	6541.3	4277.2	2160.7	1191.1	1063.1	1028.7	984.4	969.6	969.6
22.5°	9174.5	8357.5	5980.2	3386.3	1378.1	1023.8	954.9	900.7	851.5	831.8	826.9
25°	9149.9	8116.3	5453.5	2544.6	1048.4	915.5	846.6	767.8	708.8	679.2	664.5
27.5°	9081.0	7909.6	4921.9	1791.6	915.5	817.0	728.4	644.8	575.9	531.6	526.6
30°	8834.9	7693.0	4331.3	1240.3	831.8	723.5	625.1	526.6	457.7	428.2	418.4
32.5°	8731.5	7491.2	3686.5	954.9	758.0	639.9	526.6	438.1	383.9	354.4	349.5
35°	8608.5	7195.9	3061.5	831.8	689.1	556.2	443.0	369.1	324.8	300.2	300.2
37.5°	8623.3	6959.6	2475.7	753.1	615.2	477.4	379.0	315.0	275.6	251.0	251.0
40°	8579.0	6772.6	1924.5	684.2	546.3	408.5	319.9	265.8	231.3	206.7	201.8
42.5°	8780.8	6723.4	1452.0	625.1	477.4	349.5	275.6	226.4	192.0	162.4	162.4
45°	9120.4	6802.1	1132.0	570.9	408.5	300.2	236.3	187.0	152.6	132.9	128.0
47.5°	10026.0	7112.2	886.0	526.6	349.5	260.9	196.9	152.6	123.0	103.4	98.4
50°	11340.2	7806.2	753.1	462.7	295.3	221.5	162.4	118.1	98.4	78.8	73.8
52.5°	13210.5	8972.7	684.2	408.5	246.1	182.1	128.0	93.5	73.8	59.1	54.1
55°	15248.2	10429.6	620.2	344.5	206.7	147.7	103.4	73.8	54.1	39.4	34.5
57.5°	16838.0	11689.6	566.0	285.5	167.3	118.1	78.8	54.1	39.4	24.6	19.7
60°	18575.4	12575.6	497.1	226.4	137.8	88.6	59.1	39.4	29.5	14.8	14.8
62.5°	20367.0	13614.1	408.5	177.2	108.3	68.9	44.3	29.5	19.7	4.9	4.9
65°	22857.5	14426.2	315.0	137.8	83.7	49.2	34.5	24.6	9.8	0.0	0.0
67.5°	23561.4	14027.6	231.3	108.3	59.1	34.5	24.6	14.8	4.9	0.0	0.0
69°	22857.5	12634.6	201.8	93.5	49.2	29.5	19.7	9.8	4.9	0.0	0.0
70°	21572.9	11551.8	177.2	78.8	44.3	29.5	14.8	9.8	4.9	0.0	0.0
72.5°	18043.9	8859.5	137.8	59.1	34.5	24.6	14.8	9.8	0.0	0.0	0.0
75°	13235.1	5473.2	103.4	44.3	29.5	19.7	14.8	9.8	0.0	0.0	0.0
77.5°	7092.5	1998.3	73.8	29.5	19.7	14.8	14.8	9.8	0.0	0.0	0.0
80°	1944.2	590.6	54.1	19.7	14.8	9.8	9.8	4.9	0.0	0.0	0.0
82.5°	531.6	152.6	34.5	19.7	14.8	9.8	4.9	0.0	0.0	0.0	0.0
85°	285.5	59.1	19.7	14.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	147.7	19.7	14.8	9.8	9.8	4.9	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)