

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: P483992

Luminaire Tested: **IFLD-L-SA7A-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483992
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

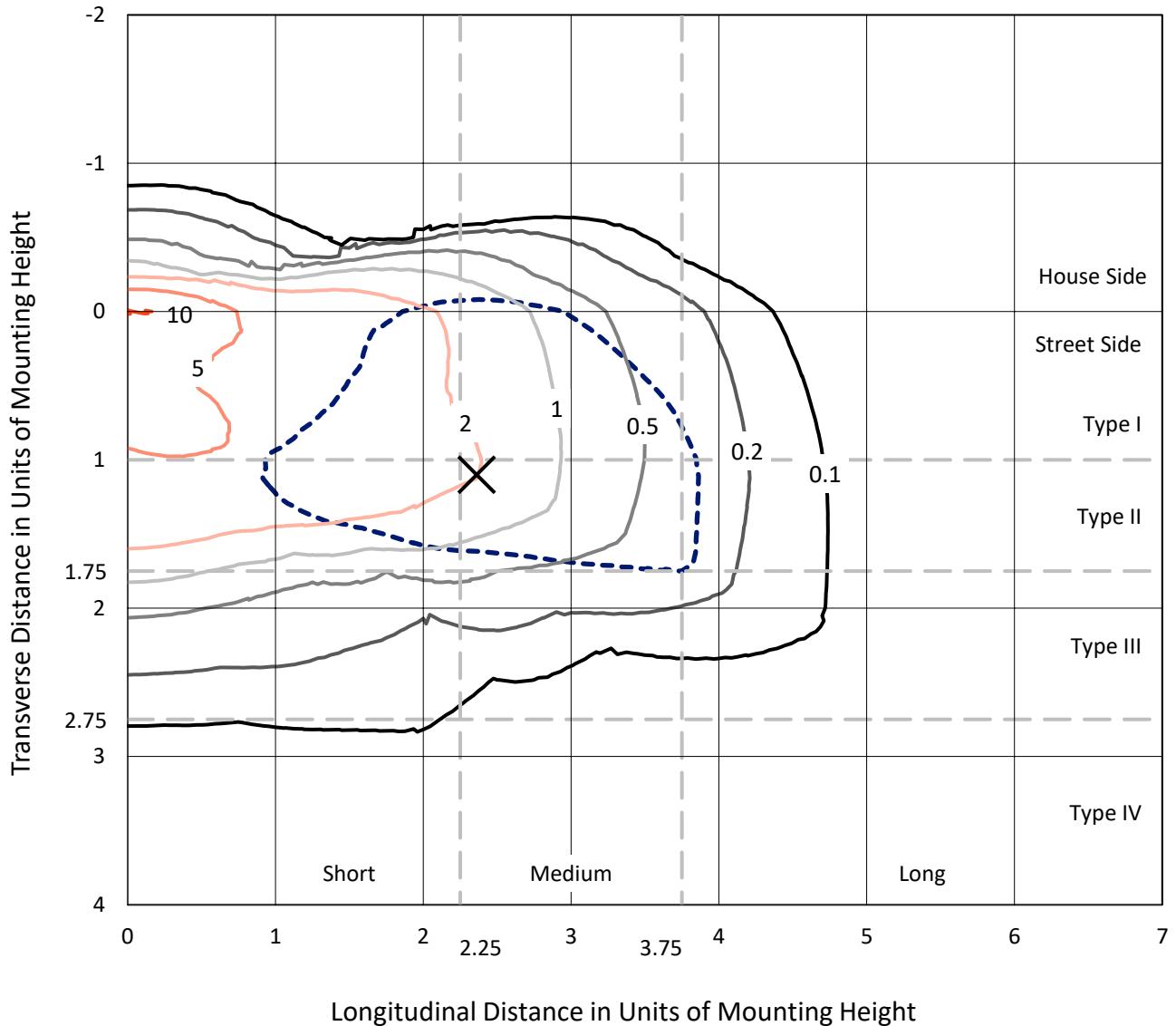
Lumens per Lamp: N/A
Luminaire Lumens: 25409 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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: P483992
 CATALOG NUMBER: IFLD-L-SA7A-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

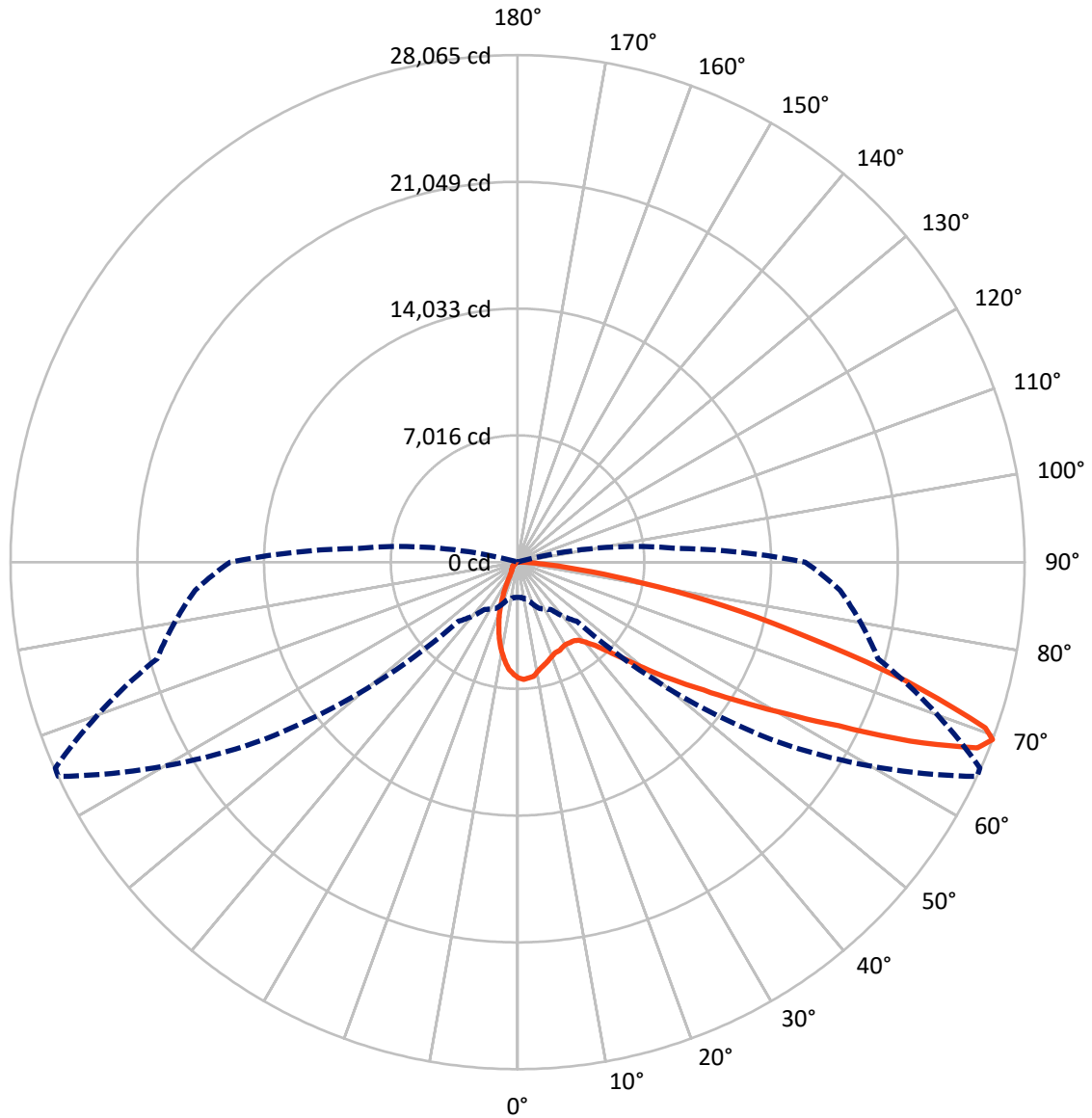
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P483992
CATALOG NUMBER: IFLD-L-SA7A-735-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483992
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3082.3	0.0	3082.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22326.8	0.0	22326.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	25409.0	0.0	25409.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.2	2.1
10°-20°	1147.0	4.5
20°-30°	1596.9	6.3
30°-40°	2263.0	8.9
40°-50°	3566.4	14.0
50°-60°	5787.0	22.8
60°-70°	6462.9	25.4
70°-80°	3639.3	14.3
80°-90°	422.3	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°	25409.0	100.0
0°-180°	25409.0	100.0



REPORT NUMBER: P483992

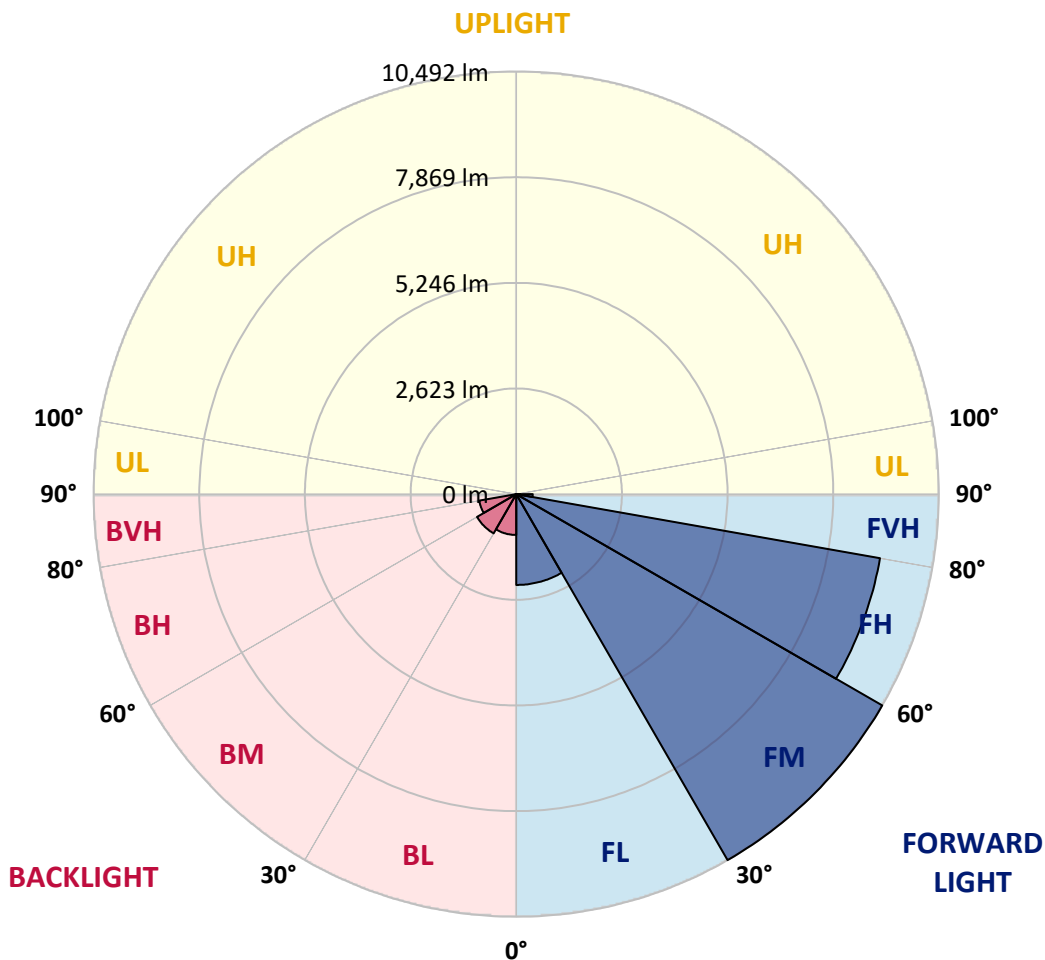
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.8	8.9			
FM (30°-60°)	10491.6	41.3			
FH (60°-80°)	9169.7	36.1			G4/12000
FVH (80°-90°)	410.7	1.6			G3/500
BL (0°-30°)	1013.4	4.0	B3/2500		
BM (30°-60°)	1124.7	4.4	B2/2500		
BH (60°-80°)	932.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.7	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-G4

Type II Medium





REPORT NUMBER: P483992

CATALOG NUMBER: IFLD-L-SA7A-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2
2.5°	6169.7	6217.7	6231.4	6279.4	6303.4	6406.2	6464.5	6498.8	6481.6	6519.3	6522.7
5°	5731.0	5703.5	5775.5	5826.9	5936.6	6114.9	6296.5	6437.1	6502.2	6563.9	6553.6
7.5°	5261.4	5247.7	5319.7	5436.2	5535.6	5751.5	6042.9	6389.1	6375.4	6526.2	6570.7
10°	4939.2	4952.9	4976.9	5093.4	5240.8	5460.2	5823.5	6145.7	6217.7	6536.5	6625.6
12.5°	4644.4	4668.4	4713.0	4832.9	5004.3	5230.5	5583.6	5960.6	6070.3	6478.2	6656.4
15°	4548.4	4493.6	4582.7	4671.8	4850.1	5052.3	5350.5	5820.1	5868.1	6409.6	6707.8
17.5°	4469.6	4435.3	4476.5	4548.4	4737.0	4901.5	5182.5	5669.3	5758.4	6382.2	6701.0
20°	4493.6	4462.8	4479.9	4534.7	4620.4	4774.7	5035.2	5525.3	5621.3	6255.4	6690.7
22.5°	4562.2	4586.1	4555.3	4569.0	4596.4	4675.3	4956.3	5422.5	5504.7	6231.4	6749.0
25°	4870.6	4829.5	4788.4	4771.2	4610.1	4644.4	4932.3	5415.6	5473.9	6145.7	6701.0
27.5°	5192.8	5158.6	5141.4	5042.0	4822.7	4719.8	4935.8	5319.7	5398.5	6111.4	6642.7
30°	5583.6	5628.1	5559.6	5439.6	5134.6	4880.9	4973.5	5271.7	5381.4	5981.2	6605.0
32.5°	5994.9	6018.9	6053.2	5964.0	5569.9	5124.3	5086.6	5316.2	5323.1	5981.2	6519.3
35°	6461.0	6426.8	6515.9	6522.7	6176.6	5556.2	5302.5	5347.1	5419.1	5953.8	6488.5
37.5°	6862.1	6920.3	7023.2	7187.7	6831.2	6166.3	5638.4	5491.0	5521.9	6080.6	6512.5
40°	7300.8	7359.1	7592.2	7756.7	7554.5	6851.8	6149.1	5826.9	5850.9	6269.1	6635.9
42.5°	7784.1	7897.2	8174.9	8462.8	8407.9	7722.4	6807.2	6320.5	6310.2	6738.7	6889.5
45°	8438.8	8589.6	8891.2	9223.7	9271.7	8719.8	7684.7	7057.5	7091.7	7352.2	7413.9
47.5°	9350.5	9343.7	9638.4	10008.6	10286.3	9755.0	8733.6	8048.0	8044.6	8322.2	8192.0
50°	10231.4	10234.8	10313.7	10742.1	11461.9	11191.2	10032.6	9364.2	9326.5	9463.6	9254.6
52.5°	10639.3	10591.3	10533.1	11050.6	12366.8	13000.9	11677.9	10855.2	10824.4	10742.1	10687.3
55°	10210.9	10228.0	10224.6	10762.7	12843.3	14910.1	13789.3	12497.1	12445.7	12188.6	12264.0
57.5°	8836.4	8781.5	8901.5	9741.3	12298.3	16212.6	16809.0	14567.4	14433.7	13580.2	13408.8
60°	6577.6	6594.7	6694.1	7684.7	10944.4	16486.8	19698.5	16997.5	16421.7	14560.5	14324.0
62.5°	4593.0	4558.7	4596.4	5151.7	7825.2	15390.0	21652.2	19952.1	19396.9	15674.5	15537.4
65°	3287.1	3242.5	3393.3	3732.7	4699.3	11767.0	21929.9	23887.0	23390.0	17453.4	17124.3
67.5°	2365.1	2358.2	2533.0	3150.0	3338.5	6776.4	19873.3	27451.7	27150.1	19564.8	18090.9
69°	1957.2	1960.6	2128.5	2820.9	3187.7	4627.3	17100.4	28065.3	28010.4	20654.8	17909.3
70°	1707.0	1720.7	1916.0	2625.6	3126.0	3804.6	14742.2	27462.0	27407.2	20867.3	17309.4
72.5°	1052.3	1062.6	1319.6	2104.6	2971.7	3105.4	8815.8	22468.0	22656.5	19893.9	14913.5
75°	503.9	507.3	692.4	1521.9	2865.5	2944.3	4723.2	16579.4	16977.0	16061.8	11653.9
77.5°	267.4	267.4	332.5	808.9	2320.5	2769.5	2803.8	11695.0	12024.1	10156.0	6625.6
80°	133.7	137.1	202.2	421.6	1439.6	2714.7	2190.2	6975.2	7153.4	4144.0	2063.4
82.5°	51.4	54.8	96.0	253.6	747.2	2293.1	1922.9	3431.0	3386.5	970.0	503.9
85°	6.9	6.9	34.3	150.8	318.8	1011.1	1587.0	1432.7	1384.8	212.5	243.4
87.5°	0.0	0.0	6.9	44.6	96.0	294.8	613.5	394.2	438.7	58.3	120.0
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°	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2	6406.2
2.5°	6505.6	6433.6	6323.9	6217.7	6104.6	5967.5	5816.7	5761.8	5665.8	5659.0	5713.8
5°	6498.8	6382.2	6190.3	5964.0	5641.8	5398.5	5134.6	4942.6	4795.2	4699.3	4723.2
7.5°	6533.0	6392.5	6060.0	5573.3	5158.6	4675.3	4267.4	3986.3	3729.2	3602.4	3588.7
10°	6478.2	6289.7	5802.9	5120.9	4510.7	3835.5	3239.1	2862.1	2478.2	2337.6	2344.5
12.5°	6509.0	6245.1	5525.3	4654.7	3814.9	2937.5	2224.5	1710.4	1350.5	1233.9	1220.2
15°	6529.6	6149.1	5258.0	4096.0	3043.7	2001.7	1288.8	970.0	856.9	836.3	832.9
17.5°	6450.8	6032.6	4880.9	3544.2	2255.4	1216.8	856.9	791.8	771.2	757.5	750.6
20°	6447.3	5964.0	4555.3	2978.6	1504.7	829.5	740.4	716.4	685.5	675.2	675.2
22.5°	6389.1	5820.1	4164.5	2358.2	959.7	712.9	665.0	627.3	593.0	579.3	575.8
25°	6371.9	5652.1	3797.8	1772.1	730.1	637.5	589.5	534.7	493.6	473.0	462.7
27.5°	6323.9	5508.2	3427.6	1247.7	637.5	569.0	507.3	449.0	401.0	370.2	366.8
30°	6152.6	5357.4	3016.3	863.8	579.3	503.9	435.3	366.8	318.8	298.2	291.3
32.5°	6080.6	5216.8	2567.3	665.0	527.9	445.6	366.8	305.1	267.4	246.8	243.4
35°	5994.9	5011.2	2132.0	579.3	479.9	387.3	308.5	257.1	226.2	209.1	209.1
37.5°	6005.2	4846.6	1724.1	524.4	428.5	332.5	263.9	219.4	191.9	174.8	174.8
40°	5974.3	4716.4	1340.2	476.4	380.5	284.5	222.8	185.1	161.1	144.0	140.5
42.5°	6114.9	4682.1	1011.1	435.3	332.5	243.4	191.9	157.7	133.7	113.1	113.1
45°	6351.4	4737.0	788.4	397.6	284.5	209.1	164.5	130.2	106.3	92.5	89.1
47.5°	6982.0	4952.9	617.0	366.8	243.4	181.7	137.1	106.3	85.7	72.0	68.6
50°	7897.2	5436.2	524.4	322.2	205.7	154.2	113.1	82.3	68.6	54.8	51.4
52.5°	9199.7	6248.5	476.4	284.5	171.4	126.8	89.1	65.1	51.4	41.1	37.7
55°	10618.7	7263.1	431.9	239.9	144.0	102.8	72.0	51.4	37.7	27.4	24.0
57.5°	11725.9	8140.6	394.2	198.8	116.5	82.3	54.8	37.7	27.4	17.1	13.7
60°	12935.8	8757.5	346.2	157.7	96.0	61.7	41.1	27.4	20.6	10.3	10.3
62.5°	14183.5	9480.8	284.5	123.4	75.4	48.0	30.8	20.6	13.7	3.4	3.4
65°	15917.8	10046.3	219.4	96.0	58.3	34.3	24.0	17.1	6.9	0.0	0.0
67.5°	16408.0	9768.7	161.1	75.4	41.1	24.0	17.1	10.3	3.4	0.0	0.0
69°	15917.8	8798.7	140.5	65.1	34.3	20.6	13.7	6.9	3.4	0.0	0.0
70°	15023.2	8044.6	123.4	54.8	30.8	20.6	10.3	6.9	3.4	0.0	0.0
72.5°	12565.6	6169.7	96.0	41.1	24.0	17.1	10.3	6.9	0.0	0.0	0.0
75°	9216.8	3811.5	72.0	30.8	20.6	13.7	10.3	6.9	0.0	0.0	0.0
77.5°	4939.2	1391.6	51.4	20.6	13.7	10.3	10.3	6.9	0.0	0.0	0.0
80°	1353.9	411.3	37.7	13.7	10.3	6.9	6.9	3.4	0.0	0.0	0.0
82.5°	370.2	106.3	24.0	13.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	198.8	41.1	13.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	102.8	13.7	10.3	6.9	6.9	3.4	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)