

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: P484696

Luminaire Tested: **IFLD-L-SA7C-727-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484696
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

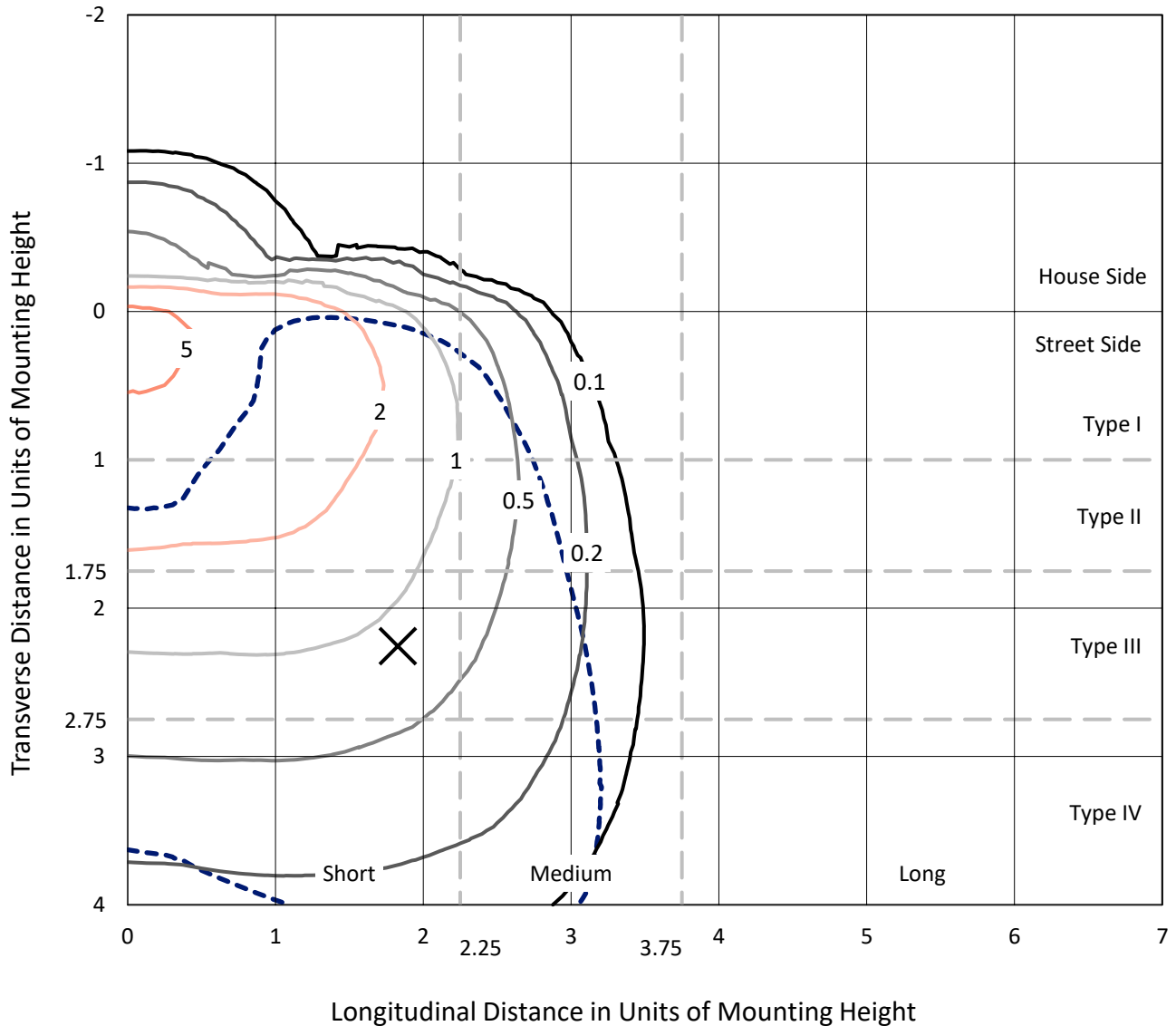
Lumens per Lamp: N/A
Luminaire Lumens: 30627.4 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
Input Voltage (V): 120
Input Current (A_{in}): 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

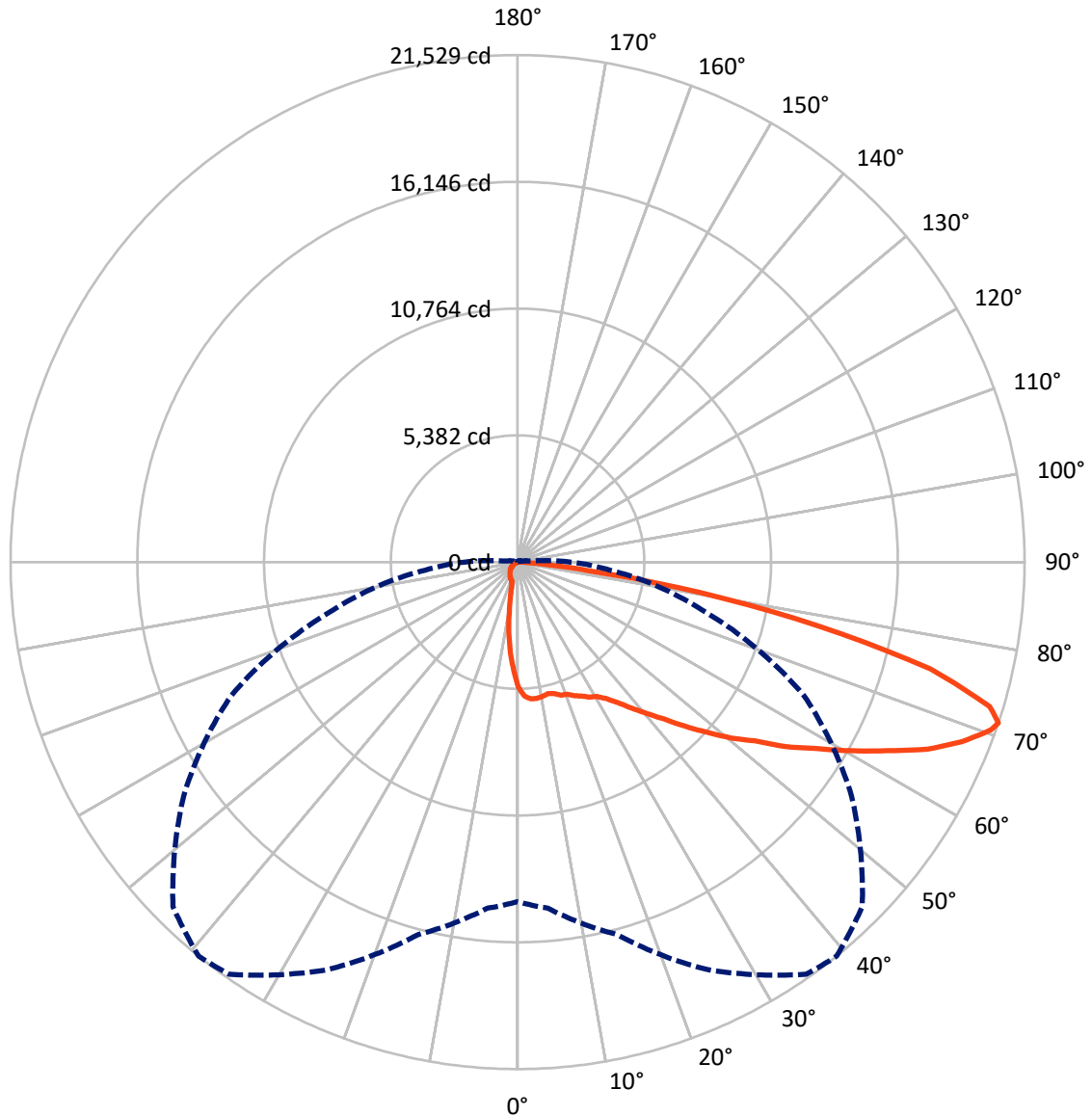
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2305.8	0.0	2305.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	28321.6	0.0	28321.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	30627.4	0.0	30627.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.7	1.5
10°-20°	1097.0	3.6
20°-30°	1761.1	5.8
30°-40°	2695.8	8.8
40°-50°	4327.2	14.1
50°-60°	6356.0	20.8
60°-70°	8005.1	26.1
70°-80°	5342.4	17.4
80°-90°	597.0	1.9
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°	30627.4	100.0
0°-180°	30627.4	100.0

Coefficient of Utilization



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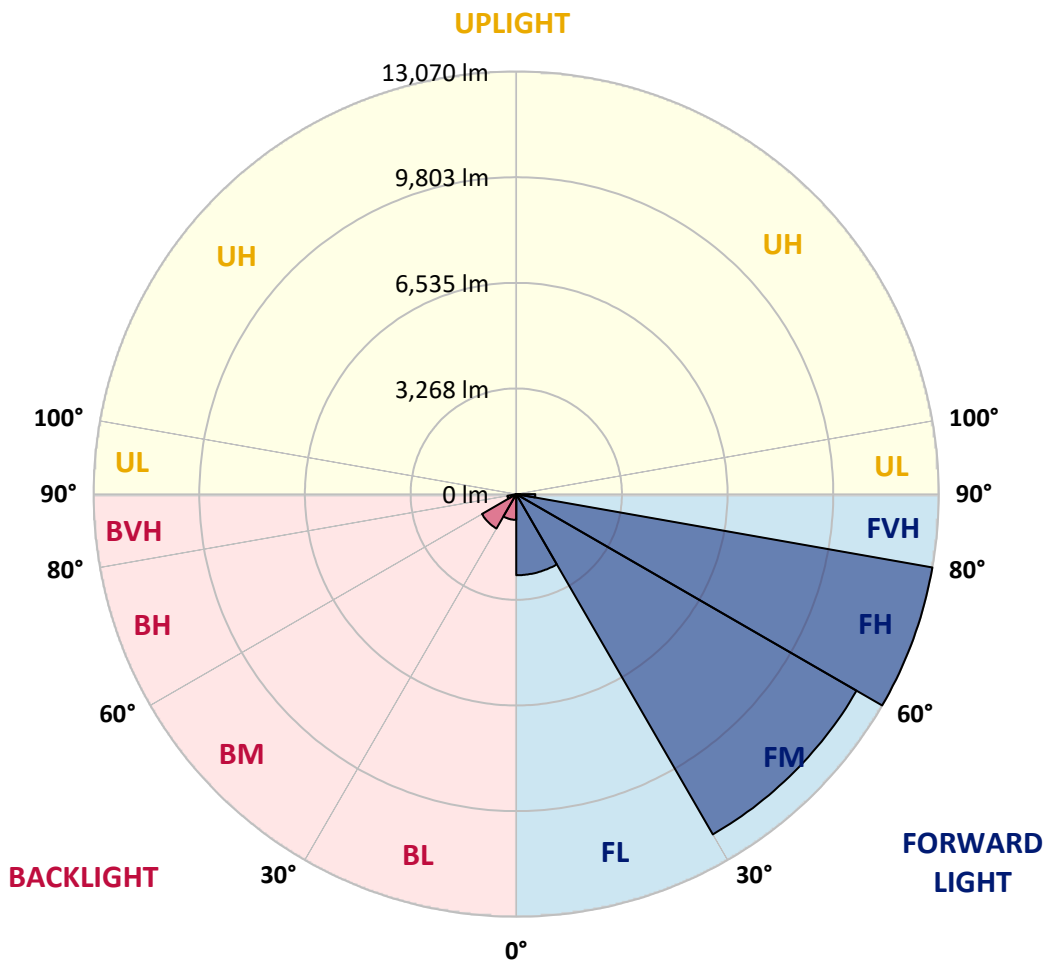
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2507.7	8.2			
FM (30°-60°)	12153.4	39.7			
FH (60°-80°)	13070.0	42.7			G5
FVH (80°-90°)	590.5	1.9			G4/750
BL (0°-30°)	796.1	2.6	B2/1000		
BM (30°-60°)	1225.6	4.0	B2/2500		
BH (60°-80°)	277.5	0.9	B1/500		G1/500
BVH (80°-90°)	6.6	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°	39°	45°	55°	65°	75°	85°
0°	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9
2.5°	5744.7	5800.9	5744.7	5720.6	5696.5	5700.5	5636.2	5648.3	5571.9	5471.5	5391.2
5°	5925.4	6001.8	5941.5	5913.4	5909.4	5833.0	5800.9	5724.6	5632.2	5475.5	5379.1
7.5°	5909.4	5893.3	5921.4	5897.3	5845.1	5845.1	5808.9	5700.5	5608.1	5431.3	5266.6
10°	5788.9	5837.1	5813.0	5784.8	5796.9	5800.9	5732.6	5656.3	5628.2	5451.4	5182.3
12.5°	5776.8	5696.5	5784.8	5788.9	5736.6	5732.6	5724.6	5704.5	5616.1	5455.4	5202.3
15°	5736.6	5704.5	5792.9	5796.9	5808.9	5796.9	5808.9	5792.9	5704.5	5612.1	5290.7
17.5°	5768.8	5732.6	5857.2	5917.4	5889.3	5945.5	5925.4	5853.1	5776.8	5668.3	5375.1
20°	5776.8	5829.0	5965.6	5989.7	6078.1	5985.7	5981.7	5905.4	5857.2	5740.7	5427.3
22.5°	5925.4	5949.5	6118.3	6170.5	6174.5	6162.5	6062.0	5973.7	5953.6	5808.9	5439.4
25°	6150.4	6234.8	6311.1	6343.2	6355.3	6299.1	6194.6	6082.1	6033.9	5941.5	5563.9
27.5°	6548.1	6495.9	6564.2	6612.4	6475.8	6495.9	6363.3	6266.9	6198.6	6118.3	5708.5
30°	6901.6	6853.4	6857.4	6849.4	6732.9	6624.4	6588.3	6419.6	6335.2	6367.3	5933.5
32.5°	7219.0	7114.6	7202.9	7162.8	6945.8	6913.7	6885.6	6672.7	6688.7	6837.4	6270.9
35°	7512.3	7476.1	7548.4	7476.1	7331.5	7323.4	7295.3	7110.5	7198.9	7411.8	6849.4
37.5°	7781.4	7793.5	7881.8	7845.7	7857.7	7865.8	7849.7	7652.9	7906.0	8384.0	7524.3
40°	8030.5	8014.4	8231.3	8343.8	8367.9	8456.3	8456.3	8408.1	8797.8	9336.1	8460.3
42.5°	8295.6	8335.8	8617.0	8805.8	9034.8	9111.1	9215.6	9239.7	9842.3	10456.9	9416.4
45°	8729.5	8661.2	9018.7	9464.6	9665.5	9934.7	10095.4	10231.9	10959.1	11802.7	10372.5
47.5°	9279.9	9143.3	9456.6	10103.4	10569.4	10790.3	11079.6	11260.4	11971.4	12843.2	11276.4
50°	9890.5	9749.9	9902.5	10794.4	11336.7	11738.4	12108.0	12337.0	13196.7	14008.2	11935.3
52.5°	10581.4	10452.9	10477.0	11513.4	12312.9	12606.1	13092.2	13433.7	14289.4	14711.2	12168.3
55°	11316.6	11284.5	11208.1	12216.5	13168.6	13827.4	14120.6	14530.4	15410.2	15092.8	12421.3
57.5°	12055.8	11955.3	12063.8	13148.5	14542.5	14936.1	15341.9	15586.9	16032.9	15426.2	12324.9
60°	12750.8	12758.8	12911.4	14160.8	15711.5	16269.9	16635.4	16486.8	16671.6	15570.9	12104.0
62.5°	13337.3	13321.2	13706.9	15297.7	17258.1	17635.7	17908.9	17246.1	16968.9	15711.5	11718.3
65°	13863.5	14044.3	14650.9	16651.5	18712.4	19146.2	18981.5	17965.1	17258.1	15297.7	10633.7
67.5°	14261.2	14530.4	15582.9	17925.0	20046.1	20351.4	20122.4	18511.5	16916.6	13674.7	8661.2
70°	14494.2	14767.4	16249.8	18985.5	21110.7	21331.6	20793.3	18089.7	14924.1	9902.5	5403.2
71°	14421.9	14755.4	16378.3	19098.0	21363.7	21528.5	20692.9	17310.3	13421.6	8291.6	3940.9
72.5°	13767.1	14080.5	15844.0	19017.7	21058.4	20958.0	19909.5	15438.3	10565.4	5286.7	2036.7
75°	10115.4	10452.9	13598.4	16450.6	18796.7	18105.8	16113.2	10834.5	5511.7	1619.0	594.6
77.5°	5037.6	5093.9	8440.2	11943.3	13787.2	13100.3	10798.4	6041.9	2060.9	478.1	297.3
80°	2322.0	2338.0	3165.6	6186.6	8335.8	7845.7	6050.0	2980.8	932.0	253.1	233.0
82.5°	1582.8	1606.9	1908.2	2563.0	3619.5	3053.1	2450.5	1908.2	534.3	152.7	229.0
85°	289.2	265.1	1068.6	1357.8	1398.0	948.1	847.6	1651.1	200.9	88.4	200.9
87.5°	0.0	4.0	148.6	554.4	498.1	220.9	289.2	401.7	20.1	28.1	36.2
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°	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9	5330.9
2.5°	5322.9	5278.7	5130.0	4965.3	4816.7	4700.2	4551.5	4483.3	4374.8	4314.5	4310.5
5°	5246.5	5126.0	4868.9	4591.7	4282.4	4025.3	3740.1	3579.4	3394.6	3338.3	3326.3
7.5°	5118.0	4945.2	4567.6	4177.9	3703.9	3250.0	2900.5	2526.9	2297.9	2201.5	2165.3
10°	5037.6	4828.7	4314.5	3732.0	3069.2	2430.4	1940.3	1542.6	1333.7	1233.3	1209.2
12.5°	5037.6	4812.7	4109.6	3306.2	2426.4	1663.1	1201.2	972.2	903.9	879.8	879.8
15°	5025.6	4780.5	3912.8	2868.3	1795.7	1116.8	895.8	847.6	839.6	835.6	831.6
17.5°	5085.8	4724.3	3711.9	2398.3	1269.5	879.8	823.5	815.5	807.5	807.5	799.4
20°	5130.0	4692.2	3470.9	1900.2	948.1	815.5	791.4	779.3	775.3	771.3	779.3
22.5°	5093.9	4643.9	3173.6	1422.1	827.6	775.3	759.3	747.2	739.2	739.2	743.2
25°	5162.2	4599.8	2876.4	1072.6	775.3	739.2	723.1	715.1	711.1	707.0	699.0
27.5°	5254.6	4619.8	2522.8	863.7	731.1	703.0	687.0	678.9	674.9	666.9	674.9
30°	5367.0	4615.8	2133.2	755.2	691.0	662.8	646.8	642.8	634.7	630.7	634.7
32.5°	5559.9	4720.3	1731.4	699.0	646.8	622.7	606.6	602.6	598.6	594.6	590.5
35°	5973.7	4848.8	1353.8	654.8	606.6	578.5	566.4	558.4	554.4	550.4	546.3
37.5°	6483.8	5134.0	1032.4	614.6	566.4	538.3	526.3	522.2	506.2	502.2	498.1
40°	7122.6	5439.4	795.4	570.4	530.3	502.2	490.1	478.1	458.0	449.9	441.9
42.5°	7918.0	5736.6	654.8	530.3	490.1	470.0	449.9	429.8	413.8	397.7	389.7
45°	8713.4	6082.1	574.5	494.1	458.0	433.9	417.8	389.7	361.6	337.4	333.4
47.5°	9376.3	6206.7	526.3	453.9	425.8	405.7	381.6	345.5	305.3	281.2	277.2
50°	9870.4	6134.3	478.1	413.8	389.7	369.6	337.4	293.3	253.1	229.0	220.9
52.5°	9966.8	5817.0	433.9	381.6	353.5	329.4	293.3	245.1	200.9	176.8	172.7
55°	9898.5	5290.7	397.7	353.5	321.4	285.2	245.1	196.8	156.7	132.6	128.6
57.5°	9757.9	4668.0	357.5	317.4	281.2	245.1	200.9	160.7	116.5	92.4	92.4
60°	9279.9	3820.4	317.4	277.2	241.0	208.9	164.7	116.5	80.3	60.3	56.2
62.5°	8613.0	2936.6	277.2	237.0	208.9	172.7	128.6	84.4	48.2	32.1	32.1
65°	7395.8	2056.8	233.0	196.8	172.7	140.6	96.4	52.2	28.1	12.1	12.1
67.5°	5620.1	1273.5	192.8	164.7	148.6	112.5	68.3	32.1	12.1	4.0	0.0
70°	3225.9	662.8	152.7	132.6	116.5	84.4	48.2	16.1	8.0	0.0	0.0
71°	2253.7	490.1	136.6	116.5	104.4	76.3	40.2	12.1	4.0	0.0	0.0
72.5°	1128.8	325.4	116.5	96.4	84.4	60.3	32.1	12.1	4.0	0.0	0.0
75°	401.7	208.9	80.3	64.3	60.3	44.2	20.1	8.0	4.0	0.0	0.0
77.5°	277.2	168.7	56.2	40.2	40.2	28.1	12.1	4.0	4.0	0.0	0.0
80°	253.1	92.4	36.2	24.1	20.1	16.1	8.0	4.0	0.0	0.0	0.0
82.5°	253.1	68.3	20.1	16.1	12.1	8.0	4.0	0.0	0.0	0.0	0.0
85°	176.8	36.2	12.1	12.1	8.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.1	12.1	8.0	4.0	4.0	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)