

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: P484039

Luminaire Tested: **IFLD-L-SA8D-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484039
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

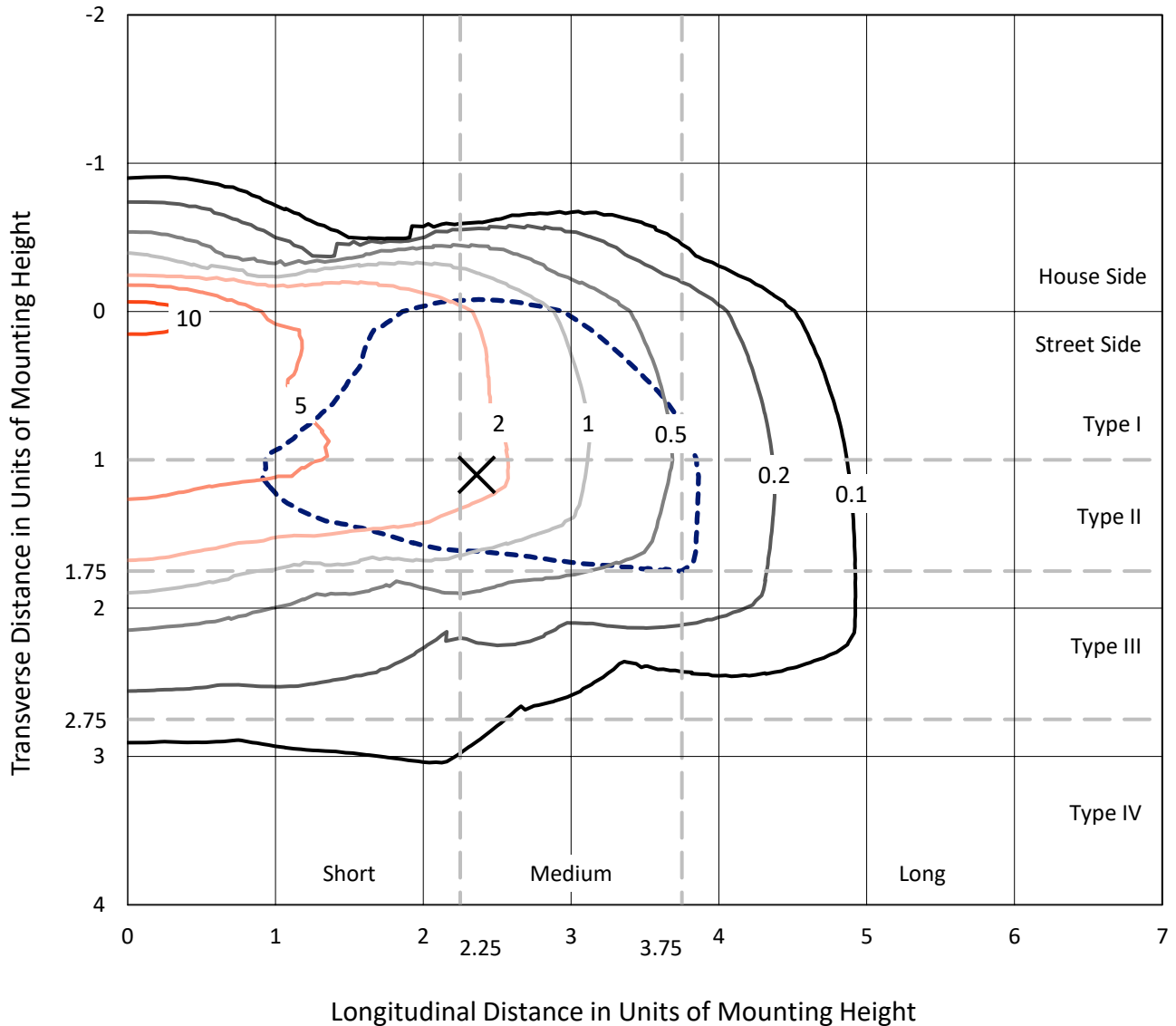
Lumens per Lamp: N/A
Luminaire Lumens: 45883.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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: P484039
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

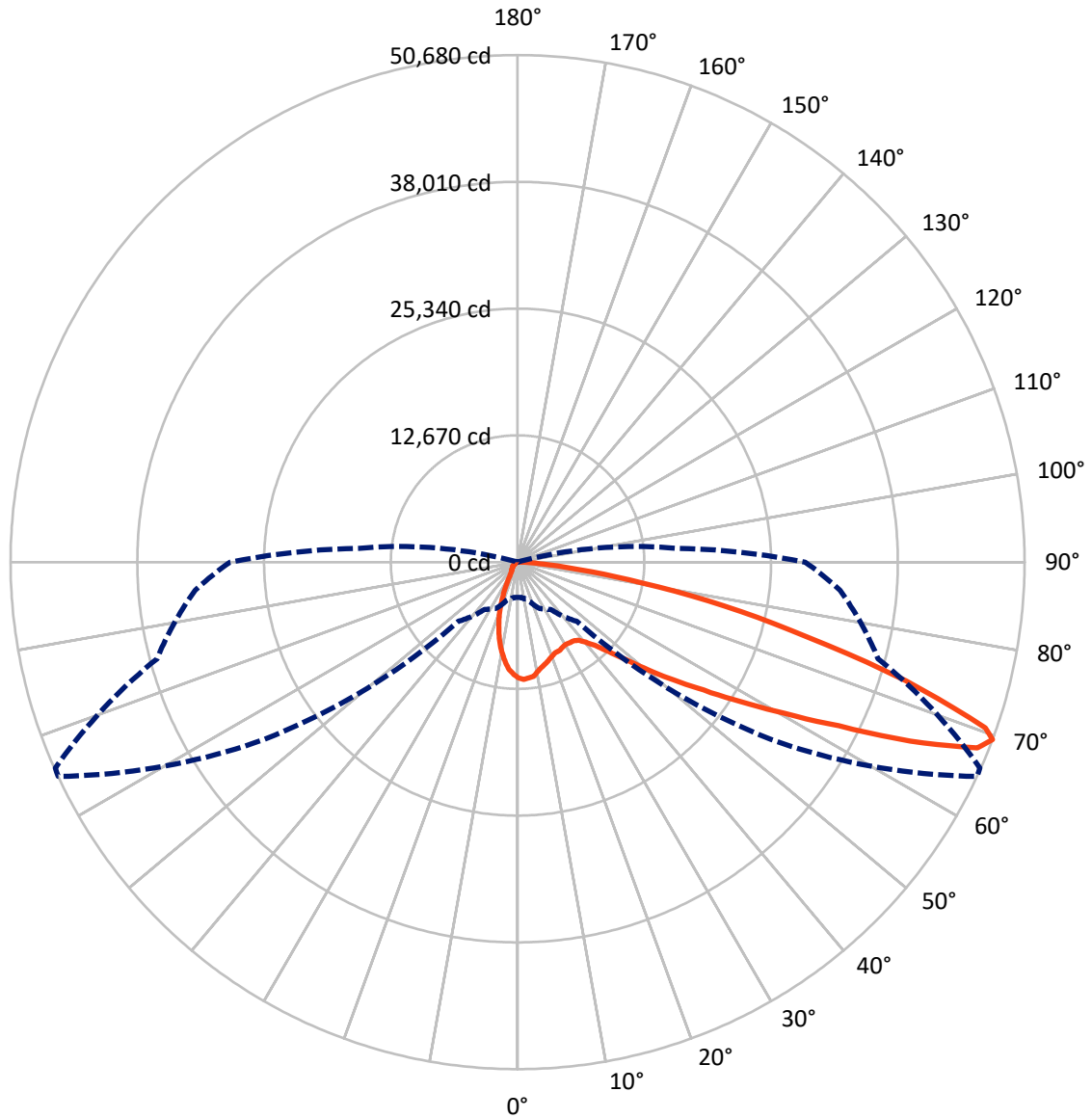
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P484039
CATALOG NUMBER: IFLD-L-SA8D-740-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484039
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5565.9	0.0	5565.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	40317.3	0.0	40317.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	45883.2	0.0	45883.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.7	2.1
10°-20°	2071.3	4.5
20°-30°	2883.7	6.3
30°-40°	4086.5	8.9
40°-50°	6440.1	14.0
50°-60°	10450.0	22.8
60°-70°	11670.6	25.4
70°-80°	6571.9	14.3
80°-90°	762.6	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°	45883.2	100.0
0°-180°	45883.2	100.0



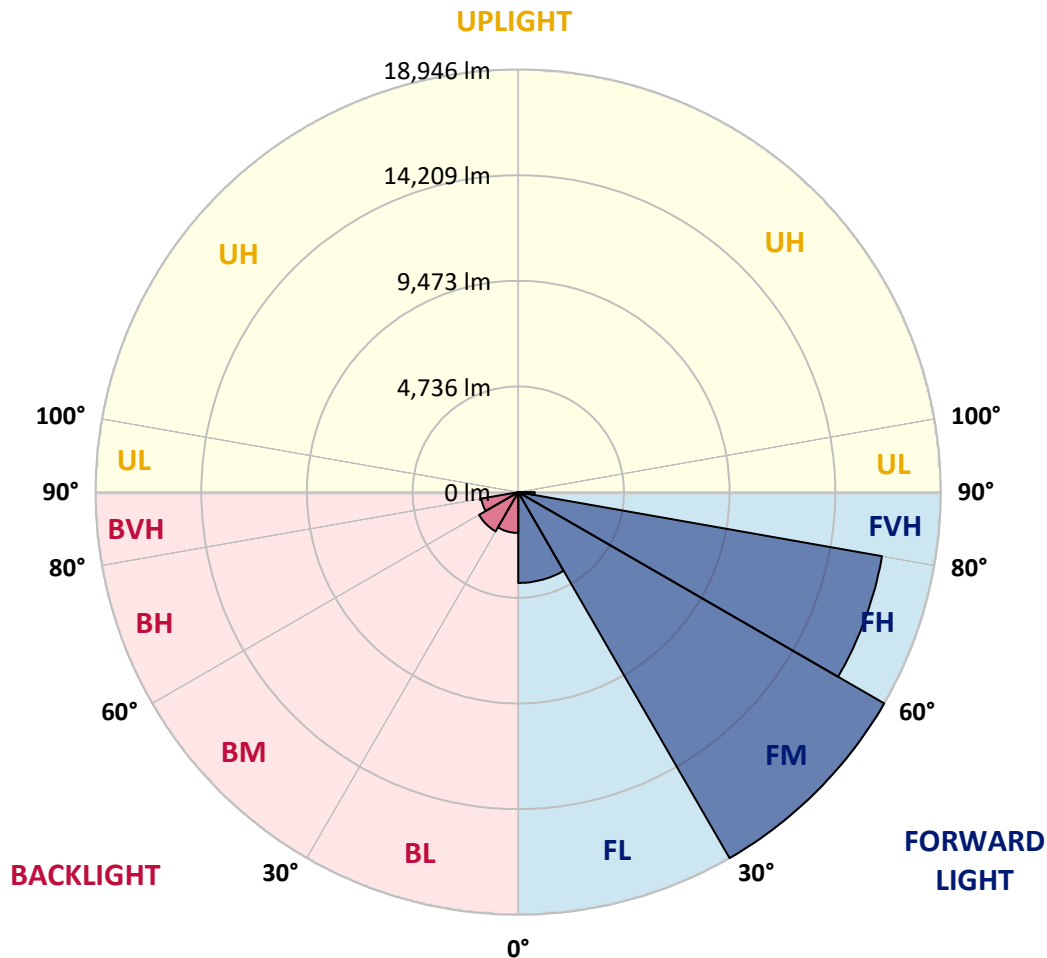
REPORT NUMBER: P484039
 CATALOG NUMBER: IFLD-L-SA8D-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4071.7	8.9			
FM (30°-60°)	18945.6	41.3			
FH (60°-80°)	16558.5	36.1			G5
FVH (80°-90°)	741.5	1.6			G4/750
BL (0°-30°)	1829.9	4.0	B3/2500		
BM (30°-60°)	2031.0	4.4	B2/2500		
BH (60°-80°)	1684.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	21.0	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





REPORT NUMBER: P484039

CATALOG NUMBER: IFLD-L-SA8D-740-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2
2.5°	11141.2	11227.8	11252.6	11339.2	11382.5	11568.2	11673.5	11735.3	11704.4	11772.5	11778.7
5°	10348.9	10299.4	10429.4	10522.2	10720.3	11042.1	11370.2	11623.9	11741.5	11852.9	11834.4
7.5°	9500.9	9476.2	9606.1	9816.6	9996.1	10386.0	10912.1	11537.3	11512.5	11784.9	11865.3
10°	8919.1	8943.9	8987.2	9197.6	9463.8	9859.9	10516.0	11097.8	11227.8	11803.4	11964.4
12.5°	8386.8	8430.1	8510.6	8727.2	9036.7	9445.2	10082.7	10763.6	10961.7	11698.2	12020.1
15°	8213.5	8114.5	8275.4	8436.3	8758.2	9123.4	9661.9	10509.8	10596.5	11574.4	12112.9
17.5°	8071.1	8009.3	8083.5	8213.5	8553.9	8851.0	9358.6	10237.5	10398.4	11524.9	12100.5
20°	8114.5	8058.8	8089.7	8188.7	8343.5	8622.0	9092.4	9977.5	10150.8	11295.9	12082.0
22.5°	8238.3	8281.6	8225.9	8250.6	8300.2	8442.5	8950.1	9791.8	9940.4	11252.6	12187.2
25°	8795.3	8721.0	8646.8	8615.8	8324.9	8386.8	8906.7	9779.5	9884.7	11097.8	12100.5
27.5°	9377.1	9315.2	9284.3	9104.8	8708.7	8523.0	8912.9	9606.1	9748.5	11035.9	11995.3
30°	10082.7	10163.2	10039.4	9822.8	9271.9	8813.9	8981.0	9519.5	9717.6	10800.7	11927.2
32.5°	10825.5	10868.8	10930.7	10769.8	10058.0	9253.3	9185.3	9600.0	9612.3	10800.7	11772.5
35°	11667.3	11605.4	11766.3	11778.7	11153.5	10033.2	9575.2	9655.7	9785.6	10751.2	11716.8
37.5°	12391.4	12496.7	12682.3	12979.4	12335.7	11135.0	10181.8	9915.6	9971.3	10980.2	11760.1
40°	13183.7	13288.9	13709.8	14006.9	13641.7	12372.9	11104.0	10522.2	10565.5	11320.6	11982.9
42.5°	14056.4	14260.7	14762.0	15281.9	15182.9	13945.0	12292.4	11413.5	11394.9	12168.6	12441.0
45°	15238.6	15511.0	16055.6	16656.0	16742.7	15746.2	13876.9	12744.2	12806.1	13276.5	13388.0
47.5°	16885.0	16872.7	17405.0	18073.4	18574.8	17615.4	15770.9	14533.0	14526.8	15028.2	14793.0
50°	18475.7	18481.9	18624.3	19398.0	20697.8	20208.8	18116.8	16909.8	16841.7	17089.3	16711.7
52.5°	19212.3	19125.6	19020.4	19955.0	22331.8	23476.9	21087.7	19602.2	19546.5	19398.0	19299.0
55°	18438.6	18469.6	18463.4	19435.1	23192.2	26924.5	24900.5	22567.0	22474.2	22010.0	22146.1
57.5°	15956.6	15857.6	16074.2	17590.6	22208.0	29276.5	30353.4	26305.5	26064.1	24522.9	24213.4
60°	11877.7	11908.7	12088.1	13876.9	19763.2	29771.6	35571.2	30693.9	29654.0	26293.1	25866.0
62.5°	8294.0	8232.1	8300.2	9302.9	14130.7	27791.0	39099.3	36029.2	35026.5	28304.7	28057.1
65°	5935.8	5855.3	6127.6	6740.4	8485.8	21248.7	39600.6	43134.8	42237.3	31517.1	30922.9
67.5°	4270.8	4258.4	4574.1	5688.2	6028.6	12236.7	35886.9	49571.9	49027.3	35329.8	32668.3
69°	3534.2	3540.4	3843.7	5094.0	5756.3	8355.9	30879.6	50679.9	50580.8	37298.1	32340.3
70°	3082.4	3107.1	3459.9	4741.2	5644.9	6870.4	26621.2	49590.5	49491.5	37681.9	31257.1
72.5°	1900.2	1918.8	2383.0	3800.4	5366.3	5607.7	15919.5	40572.4	40912.8	35924.0	26930.6
75°	909.9	916.1	1250.3	2748.2	5174.4	5316.8	8529.2	29938.8	30656.7	29004.1	21044.4
77.5°	482.8	482.8	600.4	1460.7	4190.3	5001.1	5063.0	21118.7	21712.9	18339.6	11964.4
80°	241.4	247.6	365.2	761.3	2599.6	4902.1	3955.1	12595.7	12917.5	7483.1	3726.1
82.5°	92.8	99.0	173.3	458.0	1349.3	4140.8	3472.3	6195.7	6115.3	1751.6	909.9
85°	12.4	12.4	61.9	272.3	575.6	1825.9	2865.8	2587.2	2500.6	383.8	439.5
87.5°	0.0	0.0	12.4	80.5	173.3	532.3	1107.9	711.8	792.3	105.2	216.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484039

CATALOG NUMBER: IFLD-L-SA8D-740-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2	11568.2
2.5°	11747.7	11617.7	11419.7	11227.8	11023.6	10776.0	10503.6	10404.6	10231.3	10218.9	10317.9
5°	11735.3	11524.9	11178.3	10769.8	10188.0	9748.5	9271.9	8925.3	8659.2	8485.8	8529.2
7.5°	11797.2	11543.5	10943.1	10064.2	9315.2	8442.5	7706.0	7198.4	6734.2	6505.2	6480.4
10°	11698.2	11357.8	10478.9	9247.2	8145.4	6926.1	5849.1	5168.3	4475.0	4221.3	4233.6
12.5°	11753.9	11277.3	9977.5	8405.4	6888.9	5304.4	4017.0	3088.6	2438.7	2228.2	2203.5
15°	11791.1	11104.0	9494.7	7396.5	5496.3	3614.7	2327.3	1751.6	1547.4	1510.2	1504.1
17.5°	11648.7	10893.6	8813.9	6400.0	4072.7	2197.3	1547.4	1429.8	1392.6	1367.9	1355.5
20°	11642.5	10769.8	8225.9	5378.7	2717.2	1497.9	1336.9	1293.6	1237.9	1219.3	1219.3
22.5°	11537.3	10509.8	7520.3	4258.4	1733.1	1287.4	1200.8	1132.7	1070.8	1046.0	1039.8
25°	11506.3	10206.5	6858.0	3200.0	1318.4	1151.3	1064.6	965.6	891.3	854.2	835.6
27.5°	11419.7	9946.6	6189.5	2253.0	1151.3	1027.5	916.1	810.8	724.2	668.5	662.3
30°	11110.2	9674.2	5446.8	1559.8	1046.0	909.9	786.1	662.3	575.6	538.5	526.1
32.5°	10980.2	9420.5	4636.0	1200.8	953.2	804.6	662.3	550.9	482.8	445.6	439.5
35°	10825.5	9049.1	3849.9	1046.0	866.5	699.4	557.1	464.2	408.5	377.6	377.6
37.5°	10844.1	8752.0	3113.3	947.0	773.7	600.4	476.6	396.1	346.6	315.7	315.7
40°	10788.3	8516.8	2420.1	860.3	687.0	513.7	402.3	334.2	290.9	260.0	253.8
42.5°	11042.1	8454.9	1825.9	786.1	600.4	439.5	346.6	284.7	241.4	204.3	204.3
45°	11469.2	8553.9	1423.6	718.0	513.7	377.6	297.1	235.2	191.9	167.1	160.9
47.5°	12608.1	8943.9	1114.1	662.3	439.5	328.0	247.6	191.9	154.7	130.0	123.8
50°	14260.7	9816.6	947.0	581.8	371.4	278.5	204.3	148.5	123.8	99.0	92.8
52.5°	16612.7	11283.5	860.3	513.7	309.5	229.0	160.9	117.6	92.8	74.3	68.1
55°	19175.2	13115.6	779.9	433.3	260.0	185.7	130.0	92.8	68.1	49.5	43.3
57.5°	21174.4	14700.1	711.8	359.0	210.4	148.5	99.0	68.1	49.5	30.9	24.8
60°	23359.3	15814.2	625.1	284.7	173.3	111.4	74.3	49.5	37.1	18.6	18.6
62.5°	25612.3	17120.2	513.7	222.8	136.2	86.7	55.7	37.1	24.8	6.2	6.2
65°	28744.2	18141.5	396.1	173.3	105.2	61.9	43.3	30.9	12.4	0.0	0.0
67.5°	29629.3	17640.2	290.9	136.2	74.3	43.3	30.9	18.6	6.2	0.0	0.0
69°	28744.2	15888.5	253.8	117.6	61.9	37.1	24.8	12.4	6.2	0.0	0.0
70°	27128.7	14526.8	222.8	99.0	55.7	37.1	18.6	12.4	6.2	0.0	0.0
72.5°	22690.8	11141.2	173.3	74.3	43.3	30.9	18.6	12.4	0.0	0.0	0.0
75°	16643.6	6882.8	130.0	55.7	37.1	24.8	18.6	12.4	0.0	0.0	0.0
77.5°	8919.1	2512.9	92.8	37.1	24.8	18.6	18.6	12.4	0.0	0.0	0.0
80°	2444.9	742.7	68.1	24.8	18.6	12.4	12.4	6.2	0.0	0.0	0.0
82.5°	668.5	191.9	43.3	24.8	18.6	12.4	6.2	0.0	0.0	0.0	0.0
85°	359.0	74.3	24.8	18.6	12.4	6.2	0.0	0.0	0.0	0.0	0.0
87.5°	185.7	24.8	18.6	12.4	12.4	6.2	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)