

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: P484853

Luminaire Tested: **IFLD-L-SA7D-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484853
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

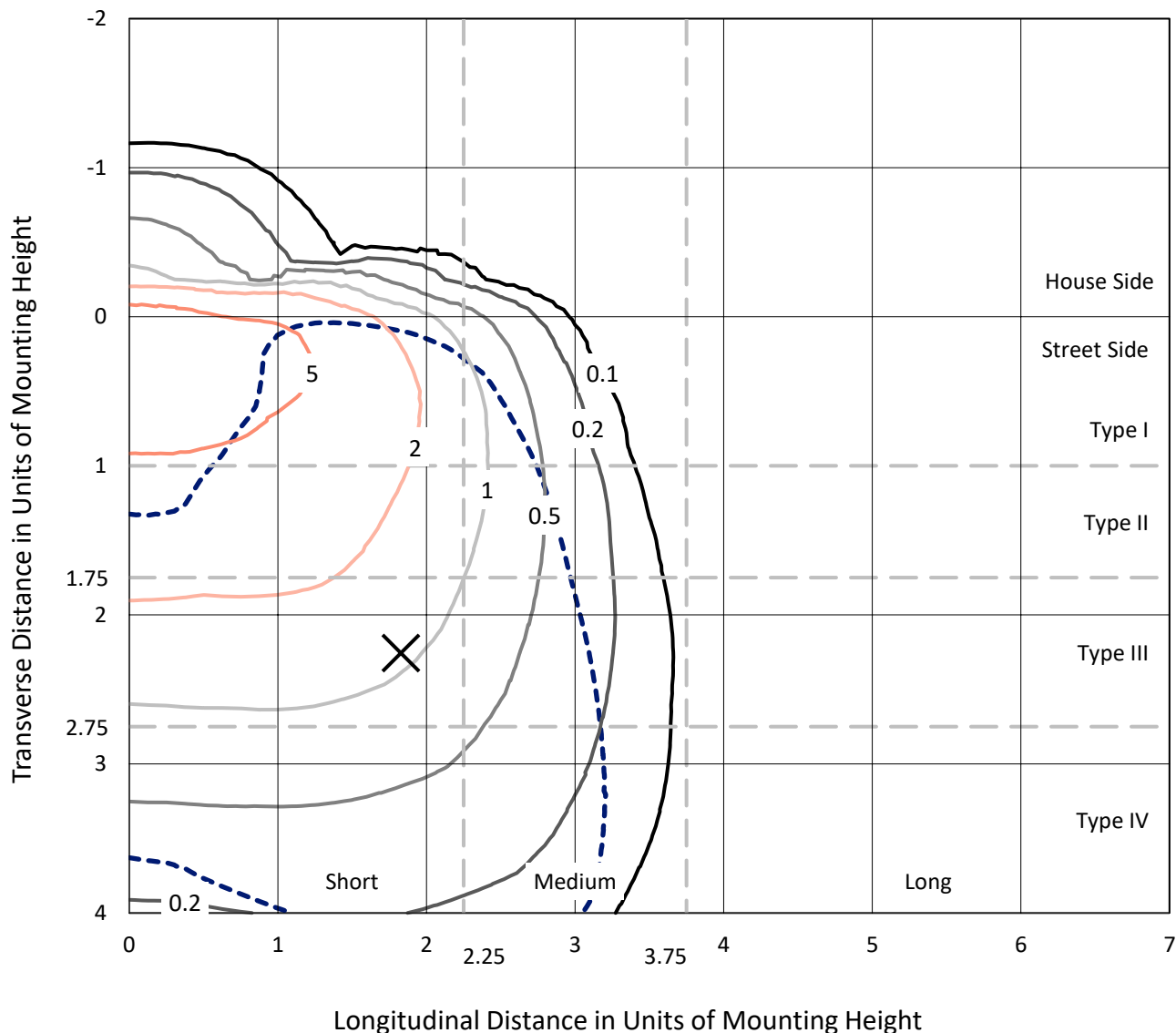
Lumens per Lamp: N/A
Luminaire Lumens: 41220 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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: P484853
 CATALOG NUMBER: IFLD-L-SA7D-750-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

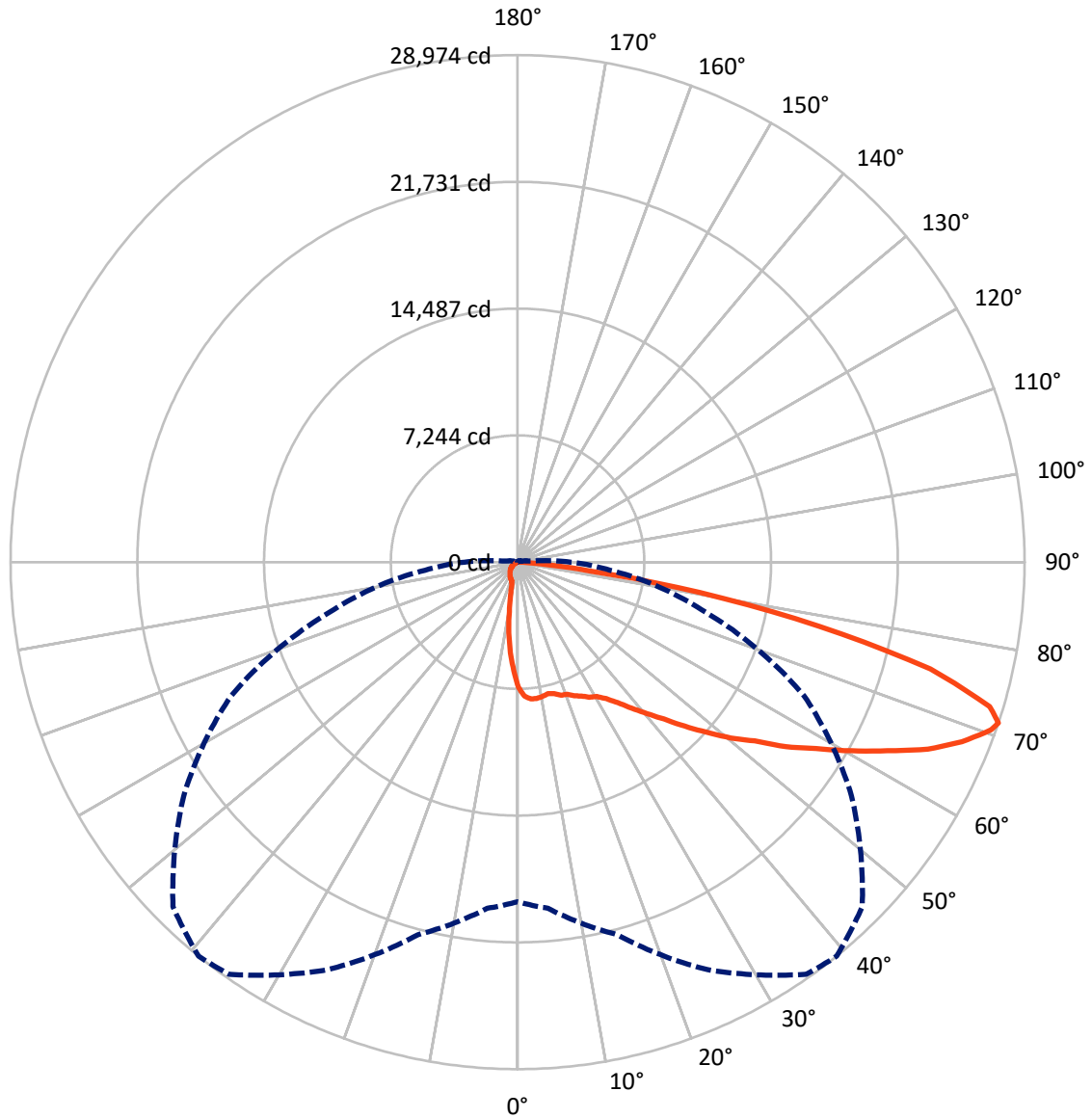
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P484853
CATALOG NUMBER: IFLD-L-SA7D-750-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484853
 CATALOG NUMBER: IFLD-L-SA7D-750-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3103.2	0.0	3103.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	38116.8	0.0	38116.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	41220.0	0.0	41220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.9	1.5
10°-20°	1476.4	3.6
20°-30°	2370.2	5.8
30°-40°	3628.2	8.8
40°-50°	5823.8	14.1
50°-60°	8554.2	20.8
60°-70°	10773.7	26.1
70°-80°	7190.1	17.4
80°-90°	803.5	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°	41220.0	100.0
0°-180°	41220.0	100.0

Coefficient of Utilization

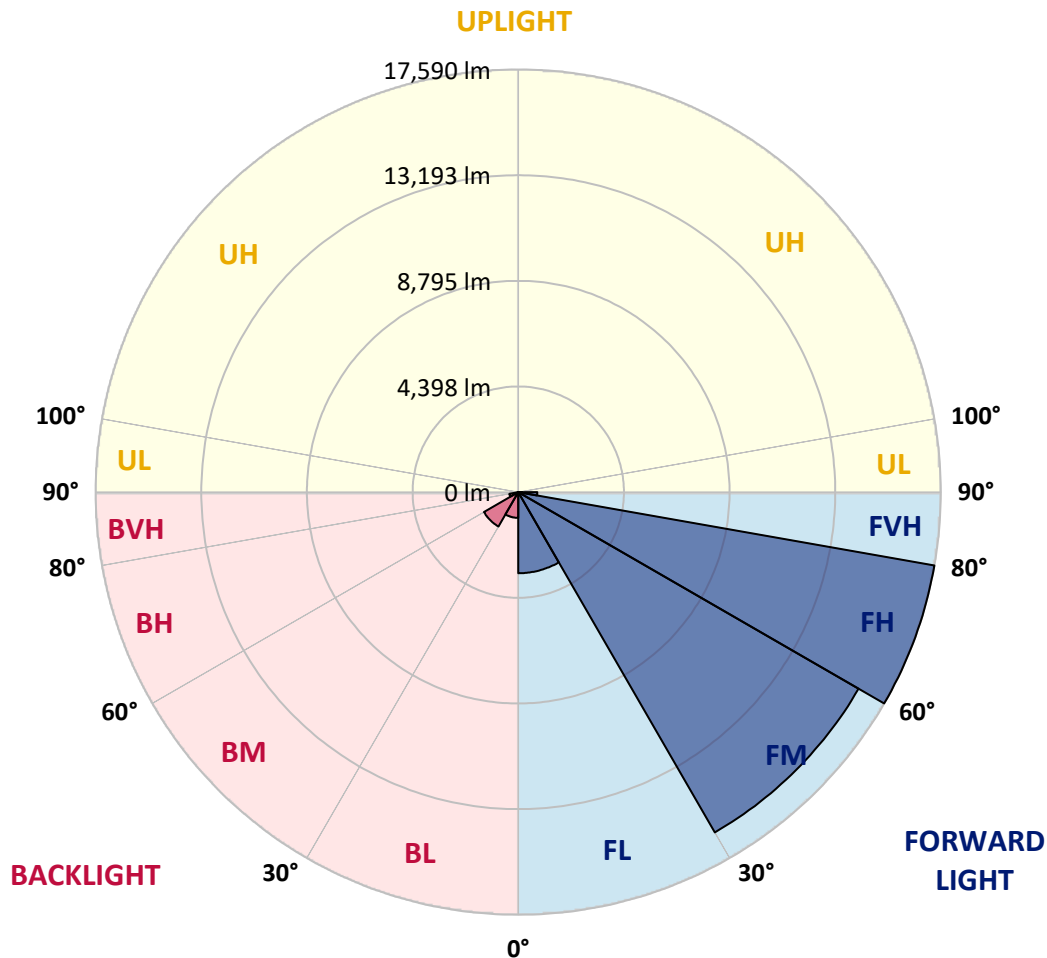


REPORT NUMBER: P484853
 CATALOG NUMBER: IFLD-L-SA7D-750-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3375.1	8.2			
FM (30°-60°)	16356.7	39.7			
FH (60°-80°)	17590.4	42.7			G5
FVH (80°-90°)	794.7	1.9			G5
BL (0°-30°)	1071.4	2.6	B3/2500		
BM (30°-60°)	1649.5	4.0	B2/2500		
BH (60°-80°)	373.5	0.9	B1/500		G1/500
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





REPORT NUMBER: P484853

CATALOG NUMBER: IFLD-L-SA7D-750-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6
2.5°	7731.5	7807.2	7731.5	7699.1	7666.6	7672.0	7585.5	7601.7	7499.0	7363.8	7255.7
5°	7974.8	8077.5	7996.4	7958.6	7953.2	7850.4	7807.2	7704.5	7580.1	7369.3	7239.5
7.5°	7953.2	7931.5	7969.4	7936.9	7866.7	7866.7	7818.0	7672.0	7547.7	7309.8	7088.1
10°	7791.0	7855.8	7823.4	7785.6	7801.8	7807.2	7715.3	7612.6	7574.7	7336.8	6974.6
12.5°	7774.7	7666.6	7785.6	7791.0	7720.7	7715.3	7704.5	7677.4	7558.5	7342.2	7001.6
15°	7720.7	7677.4	7796.4	7801.8	7818.0	7801.8	7818.0	7796.4	7677.4	7553.1	7120.5
17.5°	7763.9	7715.3	7882.9	7964.0	7926.1	8001.8	7974.8	7877.5	7774.7	7628.8	7234.1
20°	7774.7	7845.0	8028.9	8061.3	8180.2	8055.9	8050.5	7947.8	7882.9	7726.1	7304.4
22.5°	7974.8	8007.2	8234.3	8304.6	8310.0	8293.8	8158.6	8039.7	8012.6	7818.0	7320.6
25°	8277.6	8391.1	8493.8	8537.1	8553.3	8477.6	8337.0	8185.7	8120.8	7996.4	7488.2
27.5°	8812.8	8742.5	8834.5	8899.3	8715.5	8742.5	8564.1	8434.4	8342.4	8234.3	7682.8
30°	9288.6	9223.7	9229.1	9218.3	9061.5	8915.6	8866.9	8639.8	8526.3	8569.5	7985.6
32.5°	9715.7	9575.2	9694.1	9640.0	9348.1	9304.8	9267.0	8980.4	9002.1	9202.1	8439.8
35°	10110.4	10061.8	10159.1	10061.8	9867.1	9856.3	9818.5	9569.8	9688.7	9975.3	9218.3
37.5°	10472.7	10488.9	10607.8	10559.2	10575.4	10586.2	10564.6	10299.7	10640.3	11283.7	10126.6
40°	10807.9	10786.2	11078.2	11229.6	11262.0	11381.0	11381.0	11316.1	11840.5	12565.0	11386.4
42.5°	11164.7	11218.8	11597.2	11851.4	12159.5	12262.3	12402.8	12435.3	13246.3	14073.5	12673.2
45°	11748.6	11656.7	12137.9	12738.0	13008.4	13370.6	13586.9	13770.7	14749.3	15884.7	13959.9
47.5°	12489.3	12305.5	12727.2	13597.7	14224.9	14522.2	14911.5	15154.8	16111.8	17285.0	15176.4
50°	13311.2	13121.9	13327.4	14527.6	15257.5	15798.2	16295.6	16603.8	17760.8	18853.0	16063.1
52.5°	14241.1	14068.1	14100.5	15495.4	16571.4	16966.0	17620.2	18079.8	19231.4	19799.1	16376.7
55°	15230.5	15187.3	15084.5	16441.6	17723.0	18609.7	19004.3	19555.8	20739.9	20312.8	16717.3
57.5°	16225.3	16090.2	16236.1	17695.9	19572.0	20101.9	20648.0	20977.8	21577.9	20761.5	16587.6
60°	17160.7	17171.5	17376.9	19058.4	21145.4	21896.9	22388.9	22188.9	22437.6	20956.1	16290.2
62.5°	17950.0	17928.4	18447.5	20588.5	23226.9	23735.2	24102.8	23210.7	22837.7	21145.4	15771.2
65°	18658.3	18901.6	19718.0	22410.5	25184.1	25768.1	25546.4	24178.5	23226.9	20588.5	14311.4
67.5°	19193.6	19555.8	20972.4	24124.4	26979.1	27390.0	27081.9	24913.8	22767.4	18404.2	11656.7
70°	19507.2	19874.8	21869.9	25551.8	28411.9	28709.3	27984.8	24346.1	20085.7	13327.4	7271.9
71°	19409.8	19858.6	22042.9	25703.2	28752.5	28974.2	27849.6	23297.2	18063.6	11159.3	5303.9
72.5°	18528.6	18950.3	21323.8	25595.0	28341.6	28206.4	26795.3	20777.7	14219.5	7115.1	2741.2
75°	13613.9	14068.1	18301.5	22140.2	25297.7	24367.7	21686.0	14581.7	7417.9	2178.9	800.2
77.5°	6779.9	6855.6	11359.4	16073.9	18555.6	17631.1	14533.1	8131.6	2773.6	643.4	400.1
80°	3125.0	3146.7	4260.4	8326.2	11218.8	10559.2	8142.4	4011.7	1254.3	340.6	313.6
82.5°	2130.2	2162.7	2568.2	3449.4	4871.4	4109.0	3298.1	2568.2	719.1	205.5	308.2
85°	389.3	356.8	1438.2	1827.4	1881.5	1276.0	1140.8	2222.1	270.3	118.9	270.3
87.5°	0.0	5.4	200.0	746.1	670.4	297.4	389.3	540.7	27.0	37.8	48.7
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: P484853

CATALOG NUMBER: IFLD-L-SA7D-750-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6	7174.6
2.5°	7163.8	7104.3	6904.3	6682.6	6482.6	6325.8	6125.7	6033.8	5887.8	5806.7	5801.3
5°	7061.1	6898.9	6552.8	6179.8	5763.5	5417.5	5033.6	4817.3	4568.6	4492.9	4476.7
7.5°	6888.1	6655.6	6147.4	5622.9	4984.9	4374.0	3903.6	3400.8	3092.6	2962.8	2914.2
10°	6779.9	6498.8	5806.7	5022.8	4130.7	3271.0	2611.4	2076.2	1795.0	1659.8	1627.4
12.5°	6779.9	6477.2	5531.0	4449.7	3265.6	2238.3	1616.6	1308.4	1216.5	1184.1	1184.1
15°	6763.7	6433.9	5266.1	3860.3	2416.8	1503.0	1205.7	1140.8	1130.0	1124.6	1119.2
17.5°	6844.8	6358.2	4995.7	3227.8	1708.5	1184.1	1108.4	1097.5	1086.7	1086.7	1075.9
20°	6904.3	6315.0	4671.3	2557.3	1276.0	1097.5	1065.1	1048.9	1043.5	1038.1	1048.9
22.5°	6855.6	6250.1	4271.2	1914.0	1113.8	1043.5	1021.9	1005.6	994.8	994.8	1000.2
25°	6947.5	6190.6	3871.2	1443.6	1043.5	994.8	973.2	962.4	957.0	951.6	940.8
27.5°	7071.9	6217.6	3395.4	1162.4	984.0	946.2	924.5	913.7	908.3	897.5	908.3
30°	7223.3	6212.2	2870.9	1016.4	929.9	892.1	870.5	865.1	854.2	848.8	854.2
32.5°	7482.8	6352.8	2330.3	940.8	870.5	838.0	816.4	811.0	805.6	800.2	794.8
35°	8039.7	6525.8	1822.0	881.3	816.4	778.6	762.3	751.5	746.1	740.7	735.3
37.5°	8726.3	6909.7	1389.5	827.2	762.3	724.5	708.3	702.9	681.2	675.8	670.4
40°	9586.0	7320.6	1070.5	767.7	713.7	675.8	659.6	643.4	616.4	605.5	594.7
42.5°	10656.5	7720.7	881.3	713.7	659.6	632.6	605.5	578.5	556.9	535.3	524.4
45°	11727.0	8185.7	773.1	665.0	616.4	583.9	562.3	524.4	486.6	454.2	448.8
47.5°	12619.1	8353.3	708.3	611.0	573.1	546.1	513.6	465.0	410.9	378.5	373.1
50°	13284.1	8255.9	643.4	556.9	524.4	497.4	454.2	394.7	340.6	308.2	297.4
52.5°	13413.9	7828.8	583.9	513.6	475.8	443.3	394.7	329.8	270.3	237.9	232.5
55°	13322.0	7120.5	535.3	475.8	432.5	383.9	329.8	264.9	210.9	178.4	173.0
57.5°	13132.7	6282.5	481.2	427.1	378.5	329.8	270.3	216.3	156.8	124.4	124.4
60°	12489.3	5141.7	427.1	373.1	324.4	281.1	221.7	156.8	108.1	81.1	75.7
62.5°	11591.8	3952.3	373.1	319.0	281.1	232.5	173.0	113.5	64.9	43.3	43.3
65°	9953.6	2768.2	313.6	264.9	232.5	189.2	129.8	70.3	37.8	16.2	16.2
67.5°	7563.9	1713.9	259.5	221.7	200.0	151.4	91.9	43.3	16.2	5.4	0.0
70°	4341.5	892.1	205.5	178.4	156.8	113.5	64.9	21.6	10.8	0.0	0.0
71°	3033.1	659.6	183.8	156.8	140.6	102.7	54.1	16.2	5.4	0.0	0.0
72.5°	1519.3	437.9	156.8	129.8	113.5	81.1	43.3	16.2	5.4	0.0	0.0
75°	540.7	281.1	108.1	86.5	81.1	59.5	27.0	10.8	5.4	0.0	0.0
77.5°	373.1	227.1	75.7	54.1	54.1	37.8	16.2	5.4	5.4	0.0	0.0
80°	340.6	124.4	48.7	32.4	27.0	21.6	10.8	5.4	0.0	0.0	0.0
82.5°	340.6	91.9	27.0	21.6	16.2	10.8	5.4	0.0	0.0	0.0	0.0
85°	237.9	48.7	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0	0.0
87.5°	37.8	16.2	10.8	5.4	5.4	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)