

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: P483907

Luminaire Tested: **IFLD-S-SA6D-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483907
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

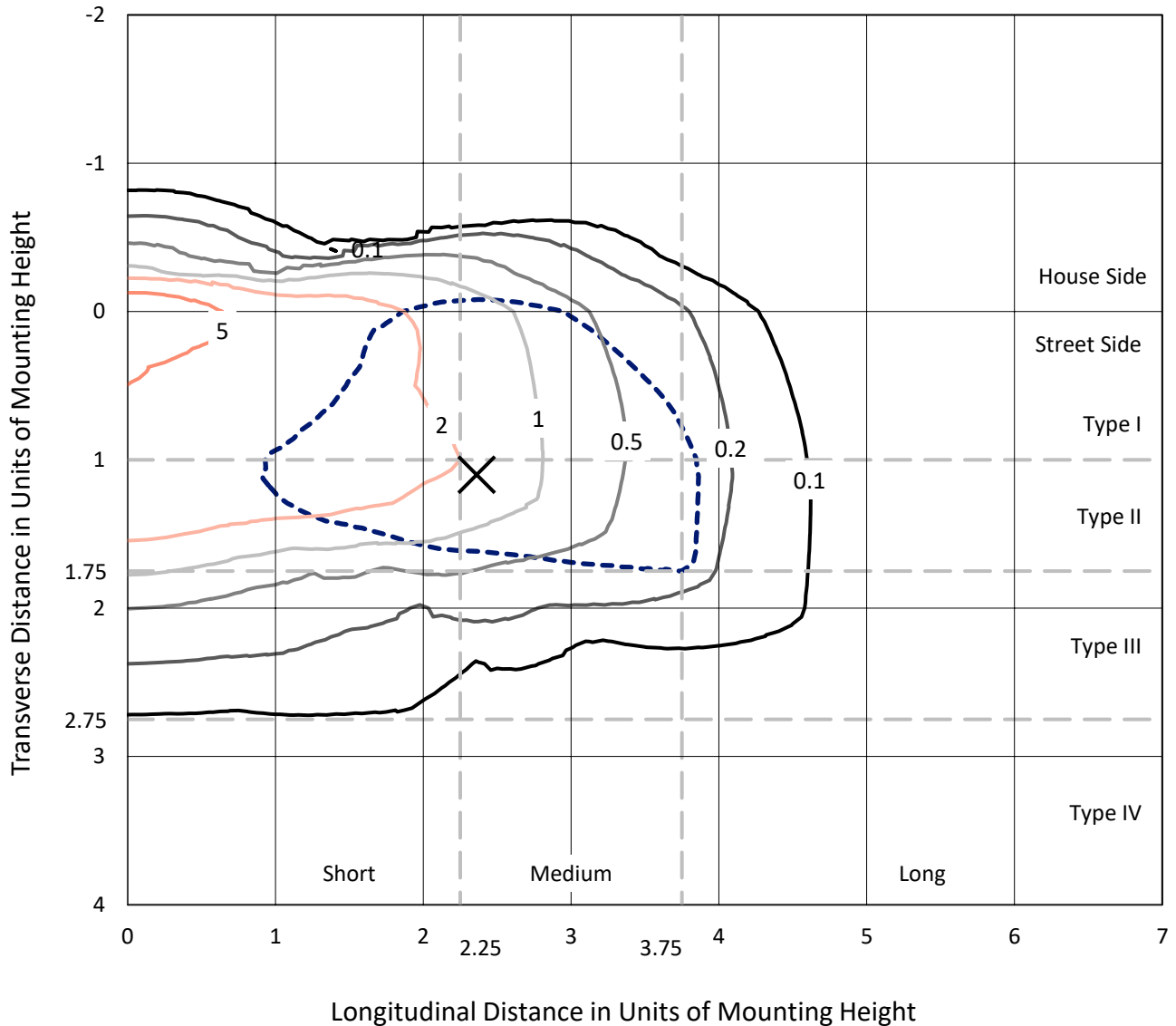
Lumens per Lamp: N/A
Luminaire Lumens: 31471.2 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2
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: P483907
 CATALOG NUMBER: IFLD-S-SA6D-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

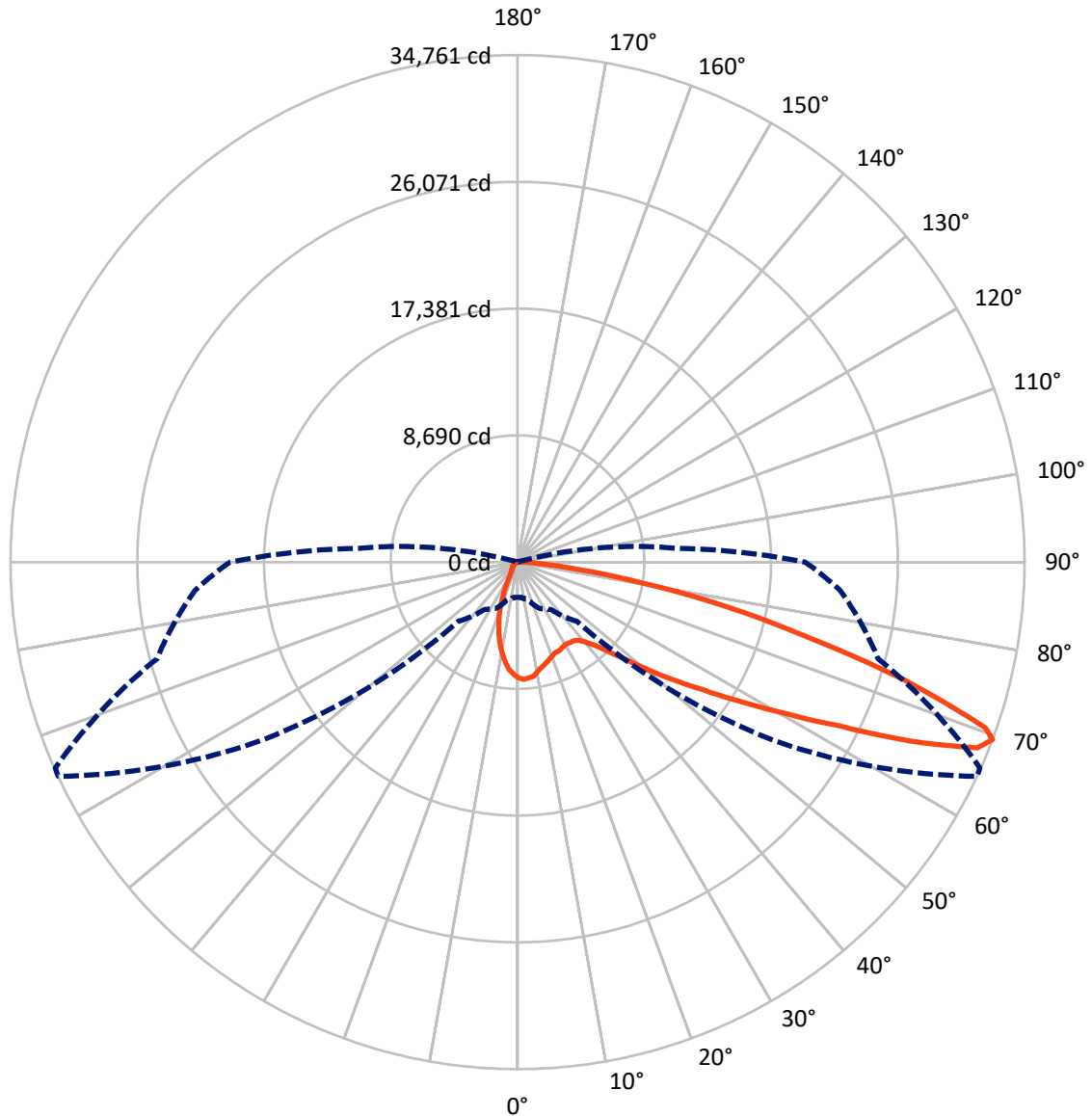
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P483907
CATALOG NUMBER: IFLD-S-SA6D-727-U-SL2-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-S-SA6D-727-U-SL2-HSS

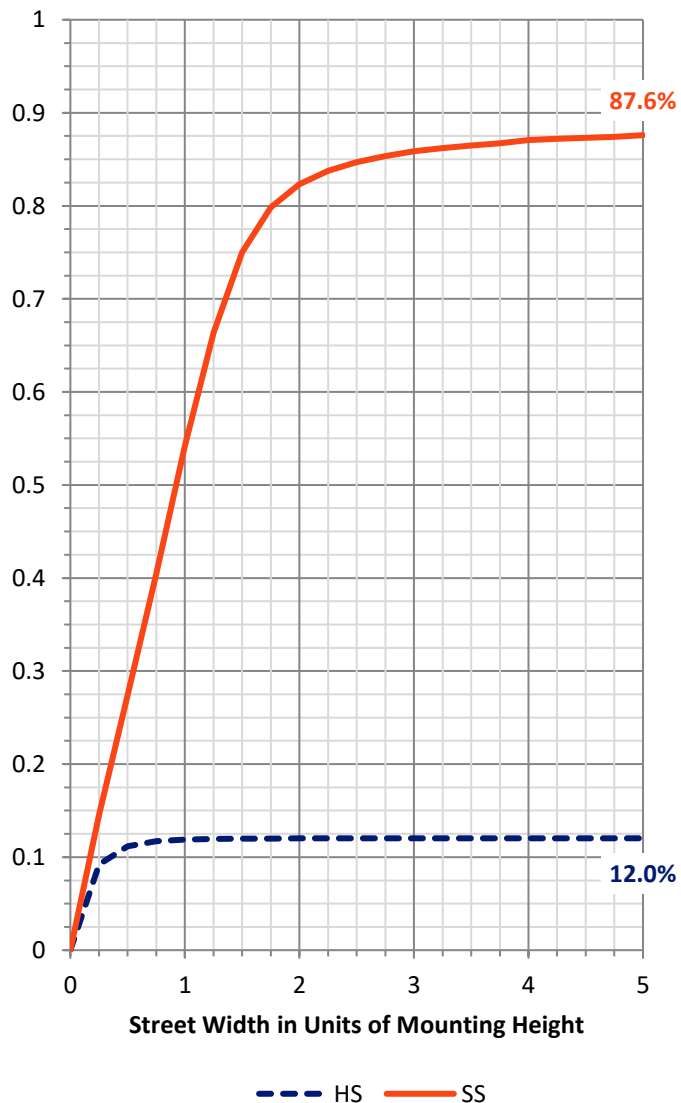
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3817.6	0.0	3817.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	27653.5	0.0	27653.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	31471.2	0.0	31471.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.3	2.1
10°-20°	1420.7	4.5
20°-30°	1977.9	6.3
30°-40°	2802.9	8.9
40°-50°	4417.2	14.0
50°-60°	7167.7	22.8
60°-70°	8004.8	25.4
70°-80°	4507.6	14.3
80°-90°	523.1	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°	31471.2	100.0
0°-180°	31471.2	100.0

Coefficient of Utilization

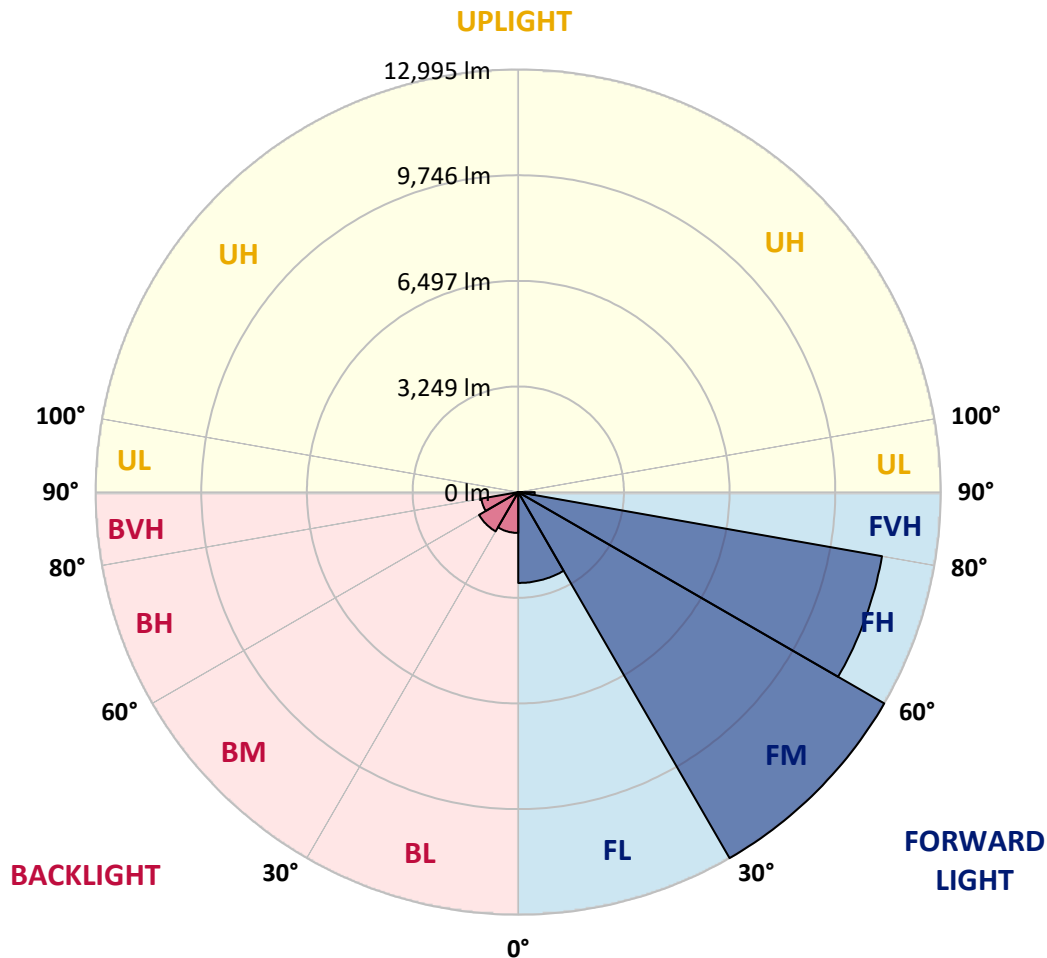


REPORT NUMBER: P483907
 CATALOG NUMBER: IFLD-S-SA6D-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2792.8	8.9			
FM (30°-60°)	12994.7	41.3			
FH (60°-80°)	11357.4	36.1			G4/12000
FVH (80°-90°)	508.6	1.6			G4/750
BL (0°-30°)	1255.1	4.0	B3/2500		
BM (30°-60°)	1393.0	4.4	B2/2500		
BH (60°-80°)	1155.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	14.4	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: P483907

CATALOG NUMBER: IFLD-S-SA6D-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6
2.5°	7641.7	7701.1	7718.1	7777.5	7807.3	7934.6	8006.8	8049.2	8028.0	8074.7	8079.0
5°	7098.3	7064.3	7153.5	7217.2	7353.0	7573.8	7798.8	7972.8	8053.5	8129.9	8117.2
7.5°	6516.7	6499.7	6588.8	6733.2	6856.3	7123.8	7484.6	7913.4	7896.4	8083.2	8138.4
10°	6117.6	6134.6	6164.3	6308.6	6491.2	6762.9	7212.9	7612.0	7701.1	8095.9	8206.3
12.5°	5752.5	5782.2	5837.4	5986.0	6198.3	6478.5	6915.7	7382.7	7518.6	8023.8	8244.5
15°	5633.6	5565.7	5676.1	5786.5	6007.2	6257.7	6627.0	7208.7	7268.1	7938.9	8308.2
17.5°	5536.0	5493.5	5544.5	5633.6	5867.1	6070.9	6419.0	7021.9	7132.2	7904.9	8299.7
20°	5565.7	5527.5	5548.7	5616.6	5722.8	5913.8	6236.5	6843.6	6962.4	7747.8	8287.0
22.5°	5650.6	5680.3	5642.1	5659.1	5693.1	5790.7	6138.8	6716.2	6818.1	7718.1	8359.2
25°	6032.7	5981.7	5930.8	5909.6	5710.0	5752.5	6109.1	6707.7	6779.9	7612.0	8299.7
27.5°	6431.8	6389.3	6368.1	6245.0	5973.3	5845.9	6113.4	6588.8	6686.5	7569.5	8227.6
30°	6915.7	6970.9	6886.0	6737.4	6359.6	6045.4	6160.0	6529.4	6665.3	7408.2	8180.9
32.5°	7425.2	7454.9	7497.3	7387.0	6898.7	6346.8	6300.1	6584.6	6593.1	7408.2	8074.7
35°	8002.5	7960.1	8070.5	8079.0	7650.2	6881.8	6567.6	6622.8	6711.9	7374.2	8036.5
37.5°	8499.3	8571.4	8698.8	8902.6	8461.0	7637.4	6983.7	6801.1	6839.3	7531.3	8066.2
40°	9042.7	9114.8	9403.5	9607.3	9356.8	8486.5	7616.2	7217.2	7246.9	7764.8	8219.1
42.5°	9641.3	9781.4	10125.2	10481.8	10413.9	9564.8	8431.3	7828.5	7815.7	8346.4	8533.2
45°	10452.1	10638.9	11012.5	11424.3	11483.8	10800.3	9518.1	8741.2	8783.7	9106.3	9182.8
47.5°	11581.4	11572.9	11938.0	12396.5	12740.4	12082.4	10817.2	9968.2	9963.9	10307.8	10146.5
50°	12672.5	12676.7	12774.4	13305.0	14196.6	13861.2	12426.2	11598.4	11551.7	11721.5	11462.5
52.5°	13177.7	13118.2	13046.1	13687.1	15317.3	16102.7	14464.0	13445.1	13406.9	13305.0	13237.1
55°	12647.0	12668.2	12664.0	13330.5	15907.4	18467.4	17079.2	15478.7	15415.0	15096.6	15190.0
57.5°	10944.6	10876.7	11025.3	12065.4	15232.4	20080.7	20819.4	18042.9	17877.3	16820.2	16607.9
60°	8146.9	8168.1	8291.2	9518.1	13555.5	20420.3	24398.2	21052.9	20339.6	18034.4	17741.5
62.5°	5688.8	5646.4	5693.1	6380.8	9692.2	19061.8	26818.1	24712.4	24024.6	19414.1	19244.3
65°	4071.3	4016.1	4202.9	4623.2	5820.4	14574.4	27162.0	29586.1	28970.5	21617.5	21209.9
67.5°	2929.3	2920.8	3137.3	3901.5	4135.0	8393.1	24614.7	34001.3	33627.7	24232.6	22407.1
69°	2424.1	2428.4	2636.4	3493.9	3948.2	5731.3	21180.2	34761.2	34693.3	25582.7	22182.1
70°	2114.2	2131.2	2373.2	3252.0	3871.8	4712.4	18259.4	34014.0	33946.1	25845.9	21439.2
72.5°	1303.3	1316.1	1634.5	2606.7	3680.7	3846.3	10919.1	27828.5	28062.0	24640.2	18471.7
75°	624.1	628.3	857.6	1884.9	3549.1	3646.8	5850.1	20534.9	21027.4	19893.9	14434.3
77.5°	331.1	331.1	411.8	1001.9	2874.1	3430.3	3472.7	14485.2	14892.8	12579.1	8206.3
80°	165.6	169.8	250.5	522.2	1783.1	3362.3	2712.8	8639.4	8860.1	5132.7	2555.7
82.5°	63.7	67.9	118.9	314.2	925.5	2840.2	2381.7	4249.6	4194.4	1201.4	624.1
85°	8.5	8.5	42.5	186.8	394.8	1252.4	1965.6	1774.6	1715.1	263.2	301.4
87.5°	0.0	0.0	8.5	55.2	118.9	365.1	759.9	488.2	543.4	72.2	148.6
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: P483907

CATALOG NUMBER: IFLD-S-SA6D-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6	7934.6
2.5°	8057.7	7968.6	7832.7	7701.1	7561.0	7391.2	7204.4	7136.5	7017.6	7009.1	7077.1
5°	8049.2	7904.9	7667.2	7387.0	6987.9	6686.5	6359.6	6121.8	5939.3	5820.4	5850.1
7.5°	8091.7	7917.6	7505.8	6903.0	6389.3	5790.7	5285.5	4937.4	4619.0	4461.9	4444.9
10°	8023.8	7790.3	7187.4	6342.6	5586.9	4750.6	4011.9	3544.9	3069.4	2895.4	2903.8
12.5°	8062.0	7735.1	6843.6	5765.2	4725.1	3638.3	2755.3	2118.4	1672.7	1528.3	1511.4
15°	8087.5	7616.2	6512.4	5073.2	3769.9	2479.3	1596.3	1201.4	1061.3	1035.9	1031.6
17.5°	7989.8	7471.9	6045.4	4389.7	2793.5	1507.1	1061.3	980.7	955.2	938.2	929.7
20°	7985.6	7387.0	5642.1	3689.2	1863.7	1027.4	917.0	887.3	849.1	836.3	836.3
22.5°	7913.4	7208.7	5158.1	2920.8	1188.7	883.0	823.6	776.9	734.5	717.5	713.2
25°	7892.2	7000.6	4703.9	2194.9	904.3	789.6	730.2	662.3	611.3	585.9	573.1
27.5°	7832.7	6822.3	4245.4	1545.3	789.6	704.7	628.3	556.1	496.7	458.5	454.3
30°	7620.5	6635.5	3735.9	1069.8	717.5	624.1	539.2	454.3	394.8	369.3	360.9
32.5°	7531.3	6461.5	3179.8	823.6	653.8	551.9	454.3	377.8	331.1	305.7	301.4
35°	7425.2	6206.7	2640.6	717.5	594.4	479.7	382.1	318.4	280.2	259.0	259.0
37.5°	7437.9	6003.0	2135.4	649.5	530.7	411.8	326.9	271.7	237.7	216.5	216.5
40°	7399.7	5841.6	1659.9	590.1	471.2	352.4	275.9	229.3	199.5	178.3	174.1
42.5°	7573.8	5799.2	1252.4	539.2	411.8	301.4	237.7	195.3	165.6	140.1	140.1
45°	7866.7	5867.1	976.4	492.5	352.4	259.0	203.8	161.3	131.6	114.6	110.4
47.5°	8647.8	6134.6	764.2	454.3	301.4	225.0	169.8	131.6	106.1	89.2	84.9
50°	9781.4	6733.2	649.5	399.1	254.7	191.0	140.1	101.9	84.9	67.9	63.7
52.5°	11394.6	7739.3	590.1	352.4	212.3	157.1	110.4	80.7	63.7	50.9	46.7
55°	13152.2	8996.0	534.9	297.2	178.3	127.4	89.2	63.7	46.7	34.0	29.7
57.5°	14523.5	10082.8	488.2	246.2	144.3	101.9	67.9	46.7	34.0	21.2	17.0
60°	16022.1	10847.0	428.8	195.3	118.9	76.4	50.9	34.0	25.5	12.7	12.7
62.5°	17567.4	11742.7	352.4	152.8	93.4	59.4	38.2	25.5	17.0	4.2	4.2
65°	19715.6	12443.2	271.7	118.9	72.2	42.5	29.7	21.2	8.5	0.0	0.0
67.5°	20322.6	12099.3	199.5	93.4	50.9	29.7	21.2	12.7	4.2	0.0	0.0
69°	19715.6	10897.9	174.1	80.7	42.5	25.5	17.0	8.5	4.2	0.0	0.0
70°	18607.5	9963.9	152.8	67.9	38.2	25.5	12.7	8.5	4.2	0.0	0.0
72.5°	15563.6	7641.7	118.9	50.9	29.7	21.2	12.7	8.5	0.0	0.0	0.0
75°	11415.8	4720.9	89.2	38.2	25.5	17.0	12.7	8.5	0.0	0.0	0.0
77.5°	6117.6	1723.6	63.7	25.5	17.0	12.7	12.7	8.5	0.0	0.0	0.0
80°	1676.9	509.4	46.7	17.0	12.7	8.5	8.5	4.2	0.0	0.0	0.0
82.5°	458.5	131.6	29.7	17.0	12.7	8.5	4.2	0.0	0.0	0.0	0.0
85°	246.2	50.9	17.0	12.7	8.5	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	127.4	17.0	12.7	8.5	8.5	4.2	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)