

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: P484387

Luminaire Tested: **IFLD-L-SA8A-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484387
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

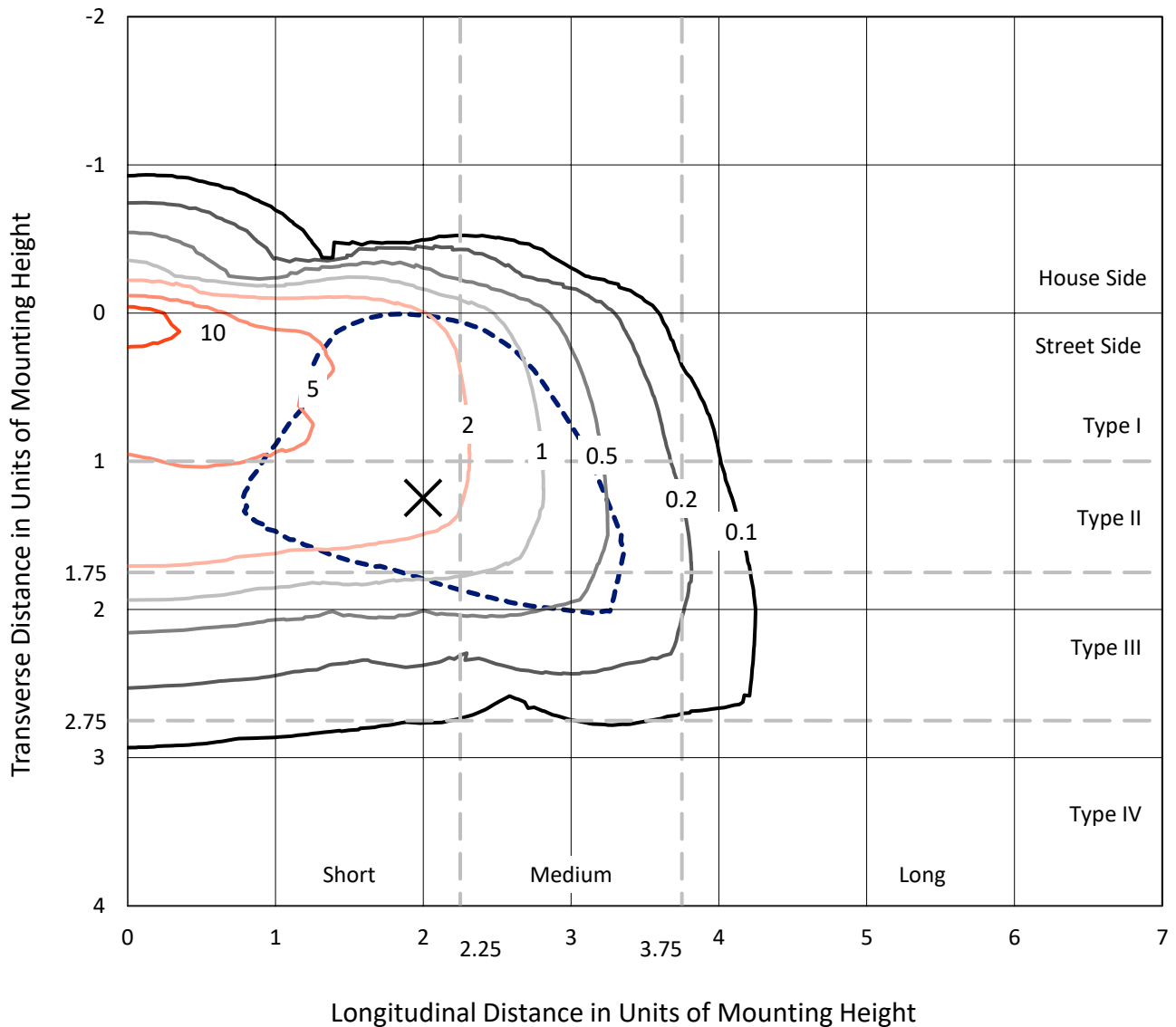
Lumens per Lamp: N/A
Luminaire Lumens: 28255.9 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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: P484387
 CATALOG NUMBER: IFLD-L-SA8A-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

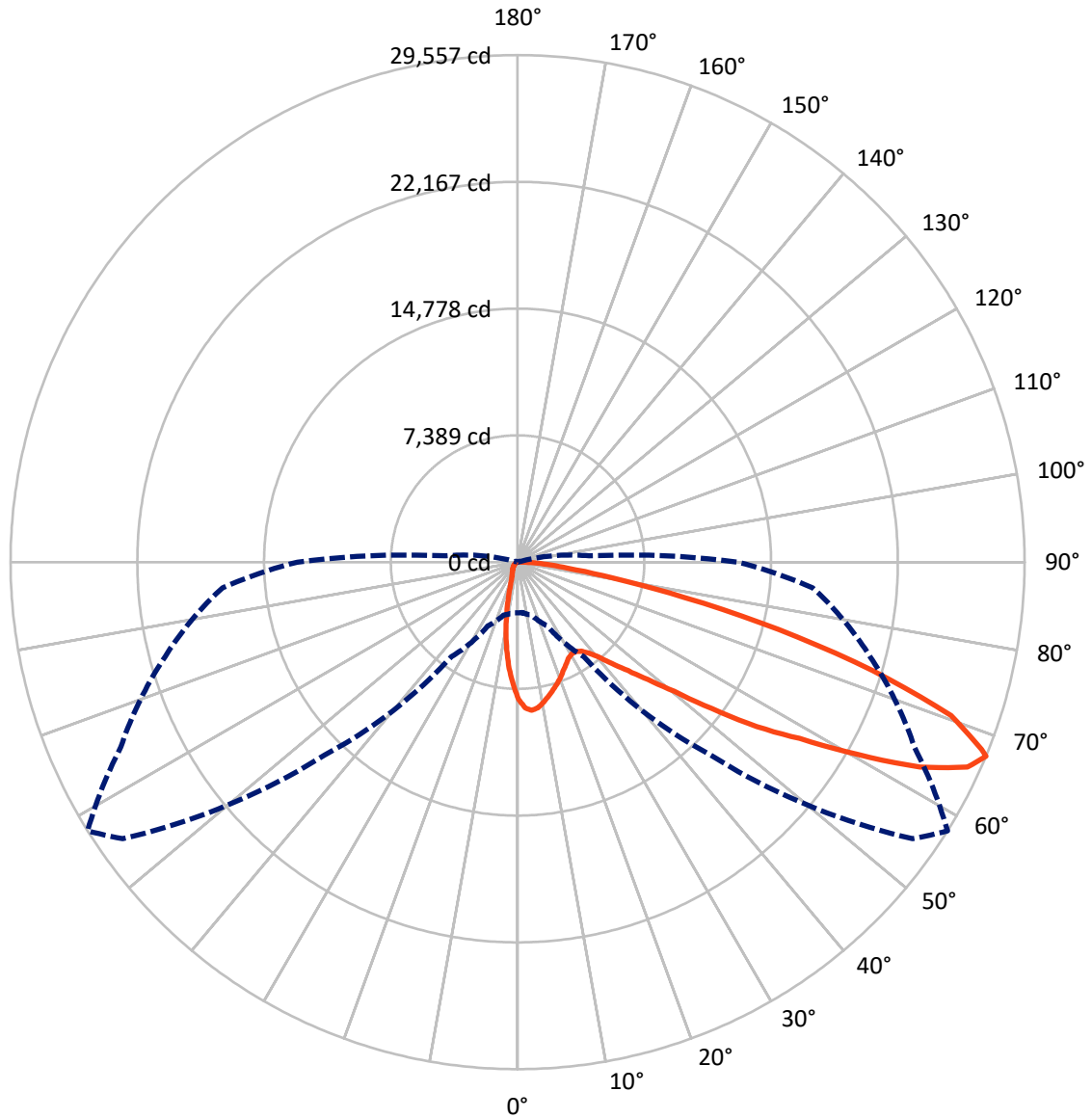
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

REPORT NUMBER: P484387
CATALOG NUMBER: IFLD-L-SA8A-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484387

CATALOG NUMBER: IFLD-L-SA8A-735-U-SL3-HSS

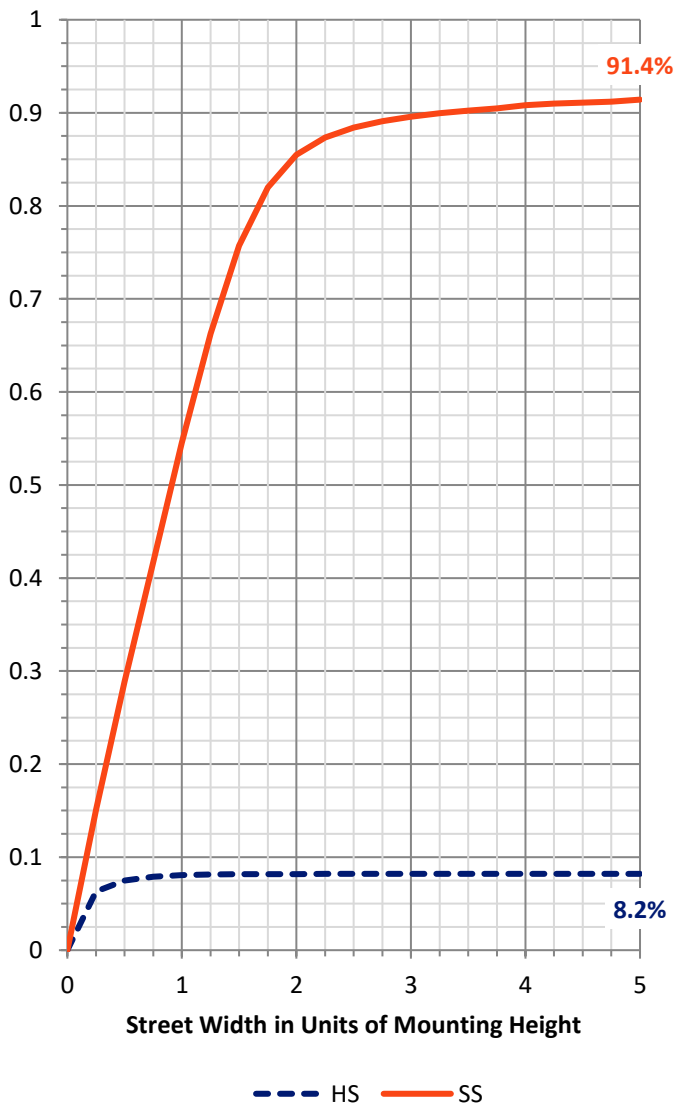
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2335.5	0.0	2335.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	25920.3	0.0	25920.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	28255.9	0.0	28255.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.2	2.2
10°-20°	1317.5	4.7
20°-30°	1748.0	6.2
30°-40°	2422.2	8.6
40°-50°	3952.3	14.0
50°-60°	6946.9	24.6
60°-70°	7694.3	27.2
70°-80°	3188.5	11.3
80°-90°	351.0	1.2
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°	28255.9	100.0
0°-180°	28255.9	100.0

Coefficient of Utilization



REPORT NUMBER: P484387

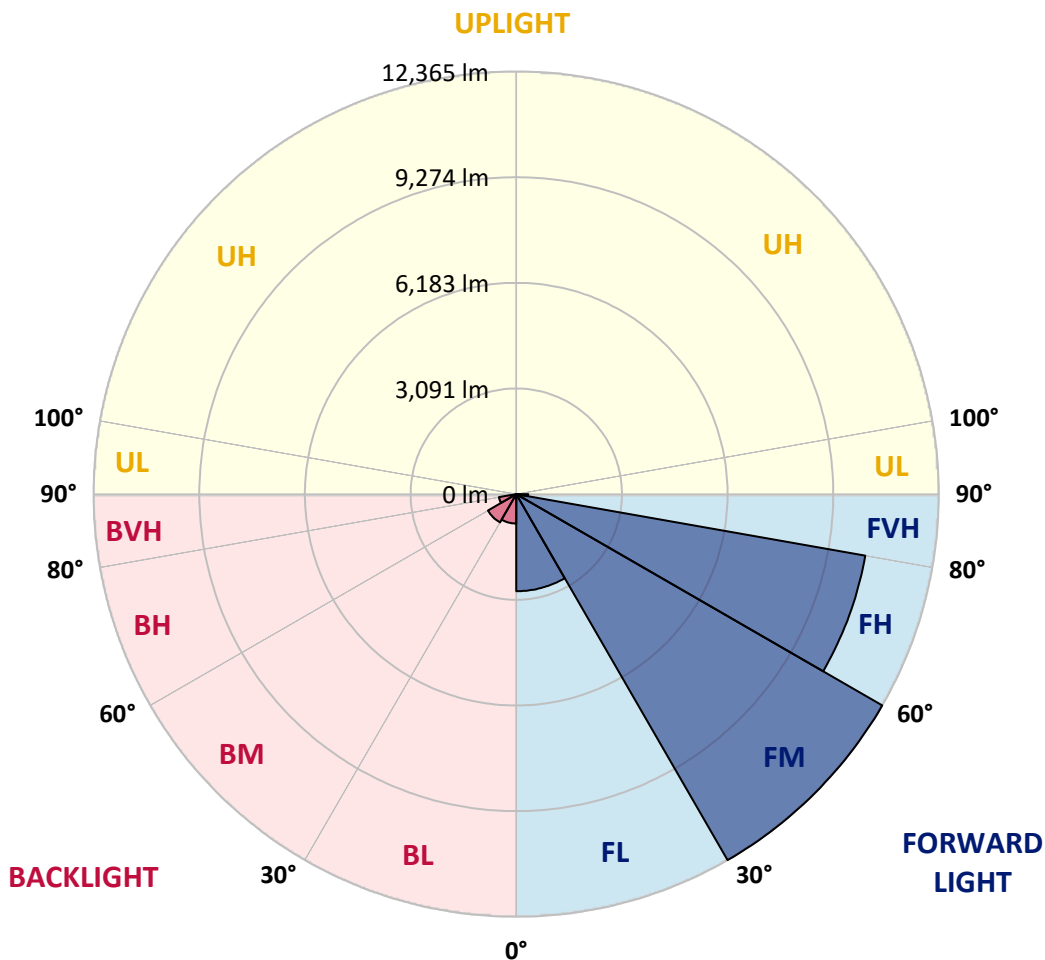
CATALOG NUMBER: IFLD-L-SA8A-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2840.5	10.1			
FM	(30°-60°)	12365.3	43.8			
FH	(60°-80°)	10369.3	36.7			G4/12000
FVH	(80°-90°)	345.2	1.2			G3/500
BL	(0°-30°)	860.2	3.0	B2/1000		
BM	(30°-60°)	956.1	3.4	B1/1000		
BH	(60°-80°)	513.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P484387

CATALOG NUMBER: IFLD-L-SA8A-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3
2.5°	8710.5	8740.5	8766.8	8718.0	8759.3	8699.3	8545.5	8511.7	8485.4	8256.6	8125.3
5°	8706.8	8673.0	8699.3	8721.8	8665.5	8710.5	8673.0	8676.7	8575.5	8369.1	8001.5
7.5°	8125.3	8110.3	8125.3	8234.1	8357.9	8455.4	8511.7	8568.0	8500.4	8192.8	7836.5
10°	7341.3	7416.3	7457.6	7652.6	7844.0	8024.0	8200.3	8305.4	8286.6	8162.8	7656.4
12.5°	6793.6	6771.1	6921.1	7048.7	7240.0	7603.9	7911.5	8009.0	8121.6	7949.0	7420.1
15°	6287.2	6227.2	6317.2	6538.5	6864.9	7153.7	7585.1	7731.4	7874.0	7919.0	7292.5
17.5°	5803.3	5833.3	5927.0	6125.9	6433.5	6838.6	7243.8	7453.8	7795.2	7735.2	7101.2
20°	5570.7	5634.4	5668.2	5769.5	5983.3	6388.5	6992.4	7161.2	7525.1	7731.4	6913.6
22.5°	5581.9	5581.9	5503.2	5563.2	5758.2	6073.3	6651.0	6838.6	7416.3	7536.4	6744.8
25°	5702.0	5626.9	5630.7	5559.4	5641.9	5814.5	6343.4	6572.3	7195.0	7555.1	6654.8
27.5°	5792.0	5777.0	5754.5	5735.7	5630.7	5657.0	6140.9	6328.4	7108.7	7532.6	6516.0
30°	6118.4	6050.8	6028.3	5987.1	5848.3	5720.7	5979.6	6215.9	7041.2	7585.1	6437.2
32.5°	6392.2	6403.5	6422.2	6302.2	6182.1	5867.0	6024.6	6212.1	6992.4	7705.2	6516.0
35°	6737.3	6786.1	6793.6	6756.1	6628.5	6317.2	6212.1	6373.5	7074.9	7919.0	6523.5
37.5°	7262.5	7210.0	7352.5	7367.5	7277.5	6864.9	6647.3	6711.1	7318.8	8260.4	6808.6
40°	7603.9	7667.7	7934.0	8099.0	7945.2	7570.1	7277.5	7266.3	7671.4	8796.8	7161.2
42.5°	7982.8	8125.3	8417.9	8774.3	8755.5	8406.7	8110.3	8061.5	8297.9	9573.3	7720.2
45°	8500.4	8628.0	9036.9	9573.3	9865.9	9569.6	9123.2	9025.6	9059.4	10631.2	8673.0
47.5°	9359.5	9325.7	9914.7	10443.6	10923.8	10694.9	10503.6	10218.5	10192.3	11876.6	9989.7
50°	10331.1	10323.6	10848.7	11449.0	12004.1	12450.6	12131.7	11820.3	11827.8	13568.4	11539.0
52.5°	11253.9	11400.2	11966.6	12563.1	13515.9	13996.1	14303.7	14179.9	13583.4	15080.2	13197.1
55°	11741.6	11869.1	12431.8	13459.7	14963.9	16198.1	17030.9	16925.8	15774.2	16783.3	14832.6
57.5°	11280.1	11366.4	12127.9	13474.7	15976.8	18730.2	19529.2	19398.0	18040.0	18085.0	16809.6
60°	9348.2	9483.3	10616.2	12195.5	15582.9	20680.9	22969.2	22770.4	20103.2	19731.8	18081.2
62.5°	6474.7	6564.8	7495.1	9460.8	13714.7	21359.9	26217.8	26326.6	22278.9	21014.8	18460.1
65°	4193.9	4186.4	4719.1	6050.8	9719.6	19304.2	28138.5	28813.7	24379.7	21209.8	18343.8
67°	2963.5	2952.3	3203.6	4103.9	6729.8	15905.5	28104.7	29556.5	25520.1	21266.1	17267.2
67.5°	2734.7	2723.4	2963.5	3773.8	6073.3	14791.4	27684.6	29173.8	25921.5	21187.3	16794.6
70°	2123.2	2093.2	2183.3	2599.6	3537.5	9565.8	23693.2	26799.3	25088.7	19221.6	13410.9
72.5°	1534.3	1568.0	1710.6	2134.5	2776.0	5146.8	18058.7	21671.2	20954.7	14487.5	8522.9
75°	1069.1	1099.1	1328.0	1740.6	2547.1	3121.1	12210.5	15717.9	14596.3	7997.8	3631.3
77.5°	558.9	596.5	847.8	1391.7	2314.5	2415.8	7296.3	9967.2	7735.2	2847.2	1001.6
80°	258.8	277.6	423.9	986.6	1935.7	2123.2	4254.0	5544.4	3094.8	637.7	345.1
82.5°	112.5	123.8	195.1	566.4	1373.0	1856.9	2633.4	2907.3	1121.6	206.3	213.8
85°	22.5	26.3	75.0	300.1	664.0	1125.4	1849.4	1725.6	562.7	101.3	168.8
87.5°	0.0	0.0	18.8	86.3	180.1	333.9	784.0	784.0	172.6	52.5	63.8
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: P484387
 CATALOG NUMBER: IFLD-L-SA8A-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3	8005.3
2.5°	8009.0	7874.0	7577.6	7303.8	7108.7	6887.4	6594.8	6463.5	6414.7	6347.2	6245.9
5°	7798.9	7633.9	7127.5	6617.3	6058.3	5634.4	5184.3	4921.7	4722.9	4599.1	4557.8
7.5°	7502.6	7165.0	6482.2	5664.5	4940.5	4310.2	3627.5	3166.1	2869.7	2749.7	2637.2
10°	7266.3	6827.4	5788.3	4771.6	3807.6	2884.7	2115.7	1710.6	1403.0	1286.7	1271.7
12.5°	6958.7	6433.5	5139.3	3860.1	2648.4	1718.1	1170.4	1016.6	930.3	915.3	904.1
15°	6703.6	6077.1	4524.1	2989.8	1714.3	1072.9	911.6	874.1	851.5	844.0	847.8
17.5°	6531.0	5694.5	3893.8	2175.8	1129.1	877.8	840.3	817.8	806.5	802.8	791.5
20°	6189.6	5371.9	3271.1	1523.0	881.6	810.3	780.3	761.5	750.3	746.5	742.8
22.5°	5994.6	4963.0	2648.4	1061.6	784.0	735.3	712.7	697.7	679.0	667.7	664.0
25°	5799.5	4662.9	2093.2	825.3	712.7	679.0	645.2	626.5	596.5	581.5	577.7
27.5°	5570.7	4366.5	1613.1	716.5	641.5	607.7	573.9	543.9	506.4	491.4	483.9
30°	5439.4	4077.7	1215.4	641.5	589.0	543.9	502.7	465.2	423.9	397.6	390.1
32.5°	5371.9	3815.1	911.6	585.2	532.7	483.9	431.4	386.4	348.9	326.4	322.6
35°	5289.3	3560.0	716.5	532.7	480.2	427.6	375.1	330.1	292.6	273.8	266.3
37.5°	5375.6	3409.9	596.5	491.4	438.9	378.9	322.6	277.6	247.6	228.8	225.1
40°	5611.9	3286.1	517.7	453.9	397.6	333.9	281.3	236.3	210.1	195.1	187.6
42.5°	5975.8	3286.1	468.9	416.4	360.1	292.6	240.1	206.3	180.1	165.1	161.3
45°	6636.0	3387.4	427.6	378.9	315.1	251.3	206.3	172.6	146.3	131.3	127.5
47.5°	7562.6	3620.0	393.9	345.1	281.3	221.3	180.1	146.3	120.0	105.0	101.3
50°	8808.0	4148.9	360.1	303.9	251.3	191.3	150.1	116.3	93.8	78.8	75.0
52.5°	10361.1	4899.2	326.4	281.3	213.8	161.3	120.0	93.8	71.3	60.0	56.3
55°	12004.1	5818.3	285.1	251.3	183.8	135.0	97.5	71.3	52.5	45.0	41.3
57.5°	13658.5	6527.3	251.3	217.6	150.1	108.8	78.8	56.3	37.5	30.0	26.3
60°	14536.3	6594.8	217.6	180.1	120.0	86.3	60.0	41.3	26.3	18.8	15.0
62.5°	14671.3	5994.6	187.6	146.3	97.5	67.5	41.3	30.0	15.0	7.5	7.5
65°	13977.3	4996.7	161.3	116.3	75.0	48.8	30.0	18.8	7.5	3.8	0.0
67°	12851.9	4186.4	138.8	97.5	60.0	37.5	22.5	11.3	3.8	0.0	0.0
67.5°	12416.8	3961.4	131.3	90.0	56.3	33.8	18.8	11.3	3.8	0.0	0.0
70°	9637.1	2828.5	97.5	63.8	41.3	26.3	15.0	7.5	0.0	0.0	0.0
72.5°	5904.5	1654.3	75.0	45.0	30.0	18.8	11.3	3.8	0.0	0.0	0.0
75°	2475.9	570.2	63.8	33.8	22.5	11.3	7.5	3.8	0.0	0.0	0.0
77.5°	645.2	213.8	45.0	22.5	15.0	11.3	7.5	3.8	0.0	0.0	0.0
80°	262.6	97.5	30.0	15.0	15.0	11.3	7.5	3.8	0.0	0.0	0.0
82.5°	172.6	45.0	18.8	15.0	11.3	7.5	3.8	0.0	0.0	0.0	0.0
85°	131.3	26.3	11.3	11.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	56.3	15.0	11.3	7.5	7.5	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)