

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: P484385

Luminaire Tested: **IFLD-L-SA7D-735-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484385
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

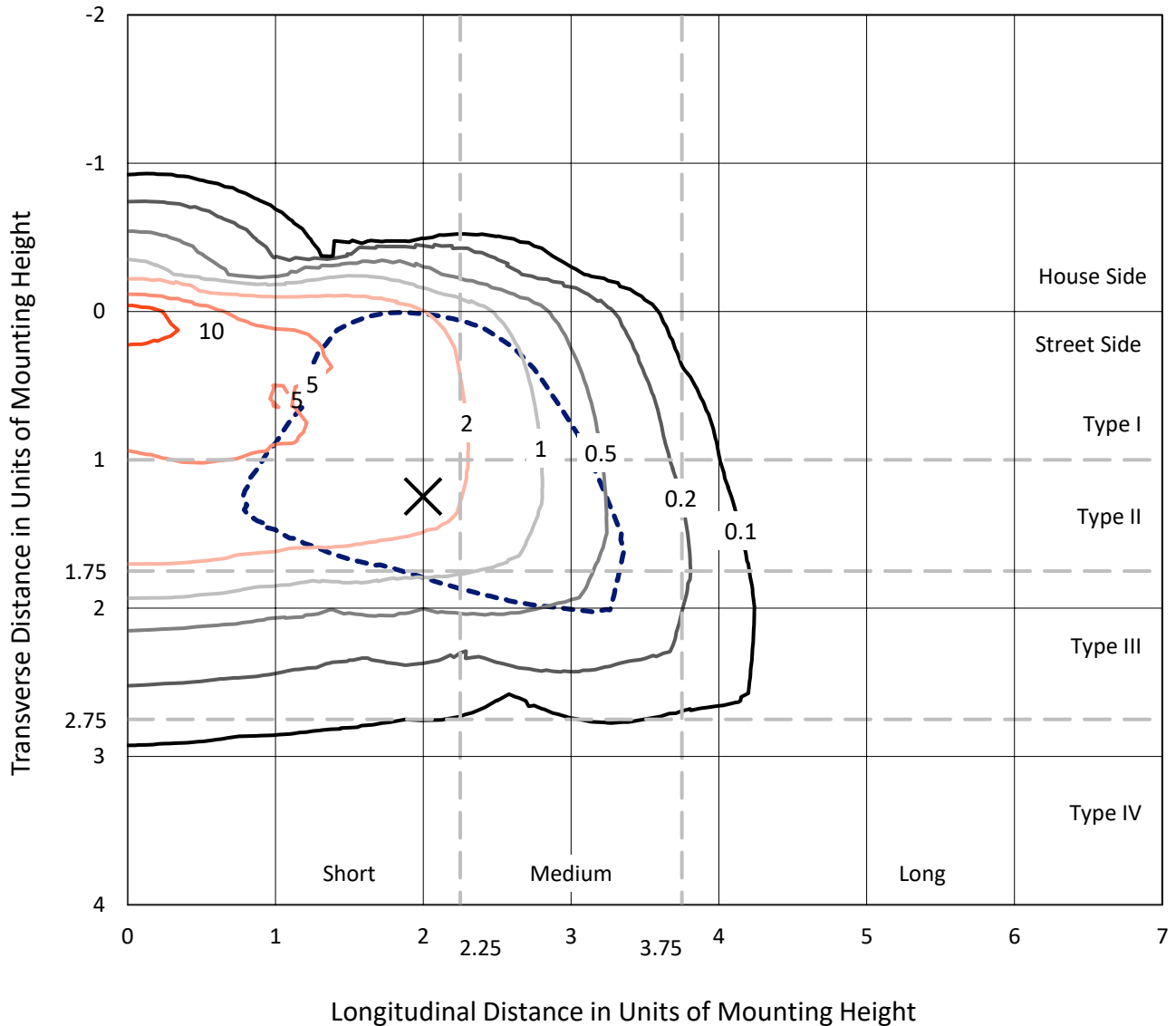
Lumens per Lamp: N/A
Luminaire Lumens: 40234.8 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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: P484385
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

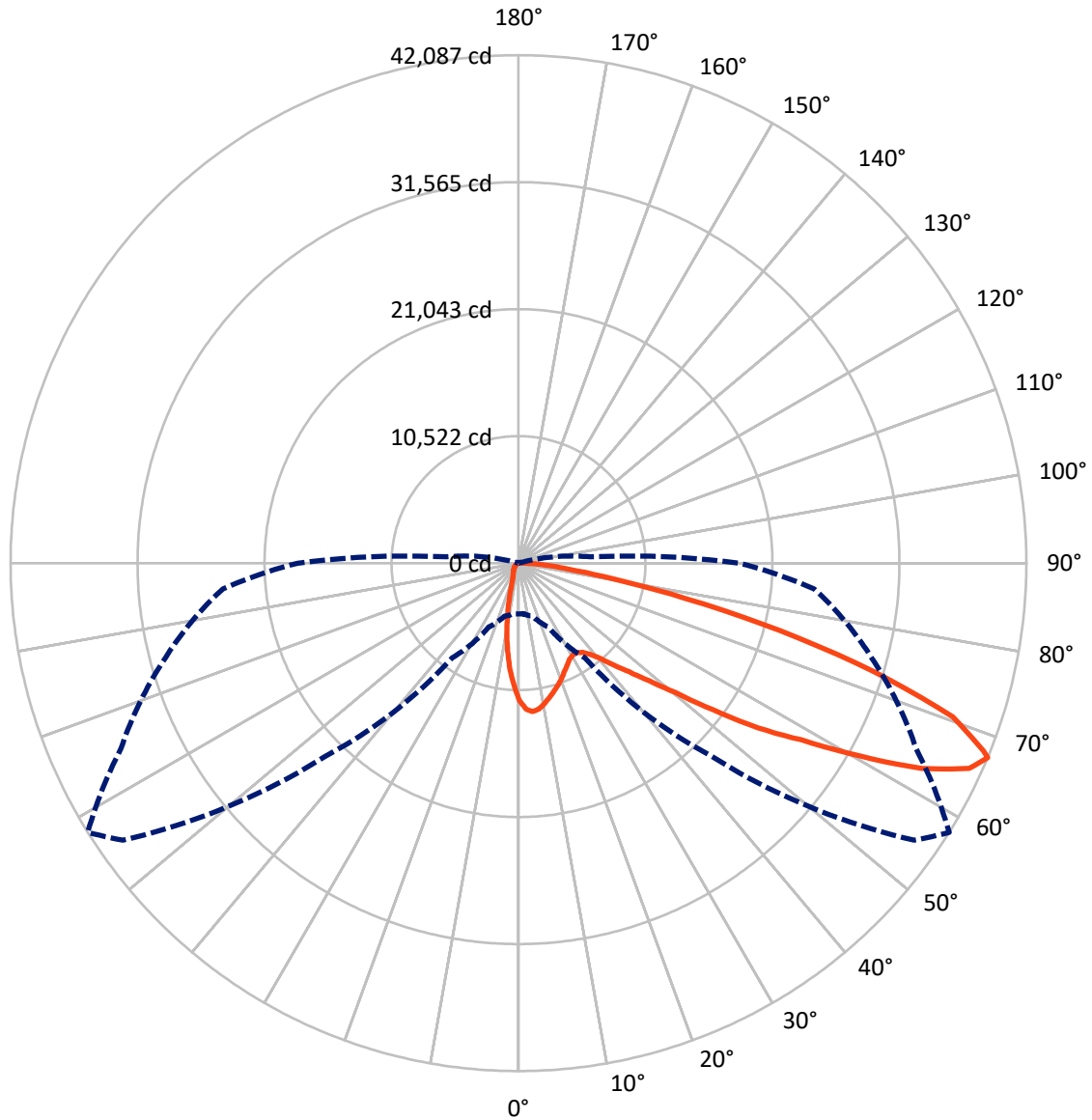
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

REPORT NUMBER: P484385
CATALOG NUMBER: IFLD-L-SA7D-735-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484385
 CATALOG NUMBER: IFLD-L-SA7D-735-U-SL3-HSS

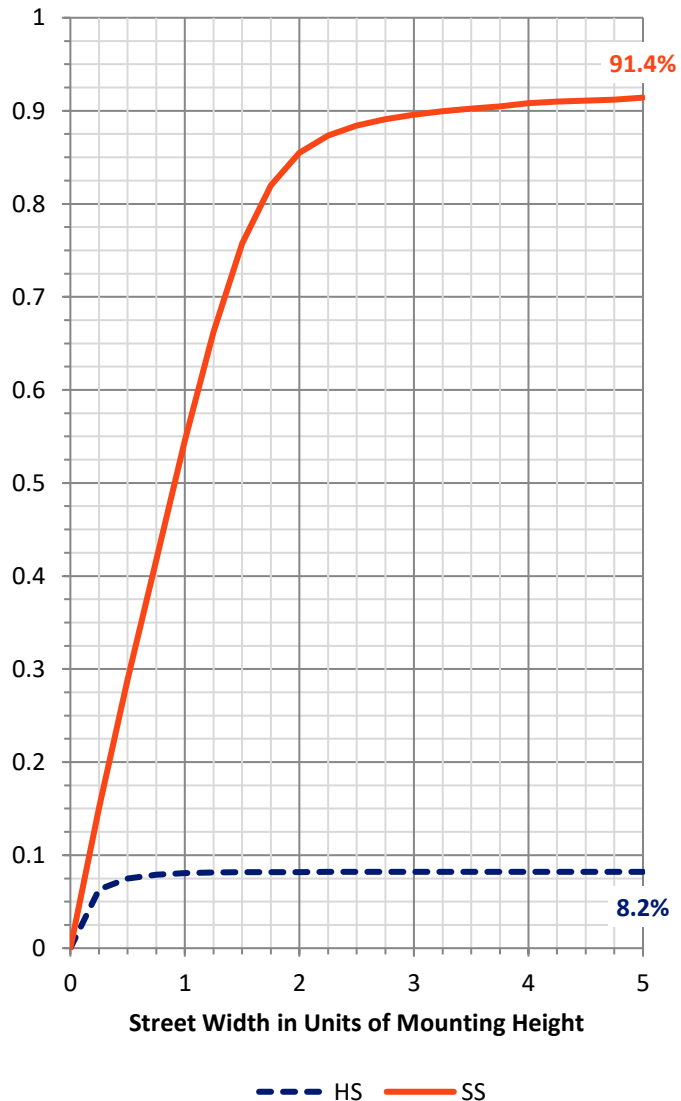
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3325.7	0.0	3325.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	36909.1	0.0	36909.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	40234.8	0.0	40234.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	904.5	2.2
10°-20°	1876.0	4.7
20°-30°	2489.1	6.2
30°-40°	3449.1	8.6
40°-50°	5627.9	14.0
50°-60°	9892.0	24.6
60°-70°	10956.2	27.2
70°-80°	4540.2	11.3
80°-90°	499.8	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°	40234.8	100.0
0°-180°	40234.8	100.0

Coefficient of Utilization



REPORT NUMBER: P484385

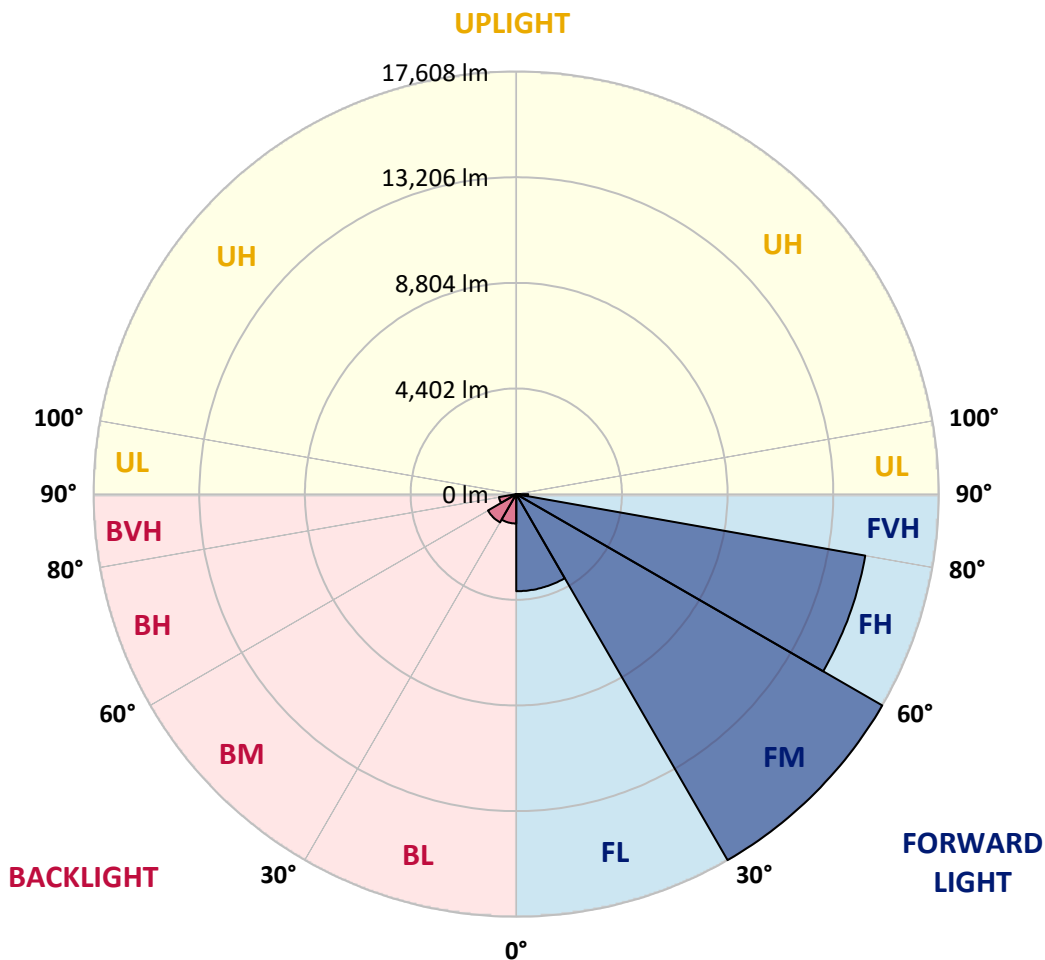
CATALOG NUMBER: IFLD-L-SA7D-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4044.7	10.1			
FM (30°-60°)	17607.6	43.8			
FH (60°-80°)	14765.3	36.7			G5
FVH (80°-90°)	491.6	1.2			G3/500
BL (0°-30°)	1224.9	3.0	B3/2500		
BM (30°-60°)	1361.4	3.4	B2/2500		
BH (60°-80°)	731.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.2	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 III Short





REPORT NUMBER: P484385

CATALOG NUMBER: IFLD-L-SA7D-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1
2.5°	12403.3	12446.0	12483.4	12414.0	12472.7	12387.3	12168.3	12120.2	12082.8	11757.0	11570.0
5°	12398.0	12349.9	12387.3	12419.3	12339.2	12403.3	12349.9	12355.2	12211.0	11917.2	11393.7
7.5°	11570.0	11548.6	11570.0	11724.9	11901.2	12040.1	12120.2	12200.3	12104.2	11666.2	11158.7
10°	10453.6	10560.4	10619.2	10897.0	11169.4	11425.8	11676.8	11826.4	11799.7	11623.4	10902.3
12.5°	9673.7	9641.7	9855.3	10037.0	10309.4	10827.5	11265.5	11404.4	11564.7	11319.0	10565.8
15°	8952.6	8867.1	8995.3	9310.5	9775.2	10186.5	10800.8	11009.1	11212.1	11276.2	10384.2
17.5°	8263.5	8306.3	8439.8	8722.9	9160.9	9737.8	10314.7	10613.9	11099.9	11014.5	10111.7
20°	7932.3	8023.2	8071.2	8215.5	8519.9	9096.8	9956.8	10197.2	10715.3	11009.1	9844.7
22.5°	7948.4	7948.4	7836.2	7921.7	8199.4	8648.1	9470.7	9737.8	10560.4	10731.4	9604.3
25°	8119.3	8012.5	8017.8	7916.3	8033.8	8279.6	9032.7	9358.6	10245.3	10758.1	9476.1
27.5°	8247.5	8226.1	8194.1	8167.4	8017.8	8055.2	8744.3	9011.4	10122.4	10726.0	9278.4
30°	8712.2	8616.1	8584.0	8525.3	8327.6	8146.0	8514.6	8851.1	10026.3	10800.8	9166.3
32.5°	9102.2	9118.2	9144.9	8974.0	8803.0	8354.3	8578.7	8845.8	9956.8	10971.7	9278.4
35°	9593.6	9663.0	9673.7	9620.3	9438.7	8995.3	8845.8	9075.5	10074.3	11276.2	9289.1
37.5°	10341.4	10266.6	10469.6	10491.0	10362.8	9775.2	9465.4	9556.2	10421.6	11762.3	9695.1
40°	10827.5	10918.3	11297.6	11532.6	11313.6	10779.4	10362.8	10346.8	10923.7	12526.2	10197.2
42.5°	11367.0	11570.0	11986.7	12494.1	12467.4	11970.6	11548.6	11479.2	11815.7	13631.9	10993.1
45°	12104.2	12285.8	12868.0	13631.9	14048.5	13626.5	12990.9	12852.0	12900.1	15138.2	12349.9
47.5°	13327.4	13279.3	14118.0	14871.1	15554.9	15229.0	14956.6	14550.6	14513.3	16911.7	14224.8
50°	14710.9	14700.2	15448.0	16302.7	17093.3	17728.9	17274.9	16831.5	16842.2	19320.7	16430.9
52.5°	16024.9	16233.3	17039.9	17889.2	19246.0	19929.7	20367.7	20191.4	19342.1	21473.4	18791.9
55°	16719.4	16901.0	17702.2	19165.8	21307.8	23065.2	24251.1	24101.5	22461.6	23898.5	21120.9
57.5°	16062.3	16185.2	17269.5	19187.2	22750.1	26670.8	27808.6	27621.7	25688.0	25752.1	23935.9
60°	13311.4	13503.7	15116.9	17365.7	22189.2	29448.5	32706.9	32423.8	28625.9	28097.1	25746.7
62.5°	9219.7	9347.9	10672.6	13471.6	19529.1	30415.3	37332.8	37487.7	31724.0	29923.9	26286.2
65°	5972.0	5961.3	6719.8	8616.1	13840.2	27488.1	40067.7	41029.2	34715.4	30201.7	26120.7
67°	4219.9	4203.9	4561.8	5843.8	9582.9	22648.6	40019.6	42086.8	36339.2	30281.8	24587.6
67.5°	3894.1	3878.0	4219.9	5373.7	8648.1	21062.1	39421.4	41542.0	36910.8	30169.6	23914.6
70°	3023.4	2980.6	3108.8	3701.8	5037.2	13621.2	33737.8	38160.7	35724.9	27370.6	19096.4
72.5°	2184.7	2232.8	2435.8	3039.4	3952.8	7328.7	25714.7	30858.7	29838.4	20629.4	12136.2
75°	1522.4	1565.1	1890.9	2478.5	3627.0	4444.3	17387.1	22381.5	20784.4	11388.4	5170.7
77.5°	795.9	849.3	1207.2	1981.8	3295.8	3440.0	10389.5	14192.8	11014.5	4054.3	1426.2
80°	368.6	395.3	603.6	1404.9	2756.3	3023.4	6057.4	7895.0	4406.9	908.1	491.4
82.5°	160.2	176.3	277.8	806.6	1955.0	2644.1	3749.8	4139.8	1597.2	293.8	304.5
85°	32.0	37.4	106.8	427.3	945.5	1602.5	2633.4	2457.2	801.2	144.2	240.4
87.5°	0.0	0.0	26.7	122.9	256.4	475.4	1116.4	1116.4	245.7	74.8	90.8
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: P484385

CATALOG NUMBER: IFLD-L-SA7D-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1	11399.1
2.5°	11404.4	11212.1	10790.1	10400.2	10122.4	9807.3	9390.6	9203.7	9134.2	9038.1	8893.8
5°	11105.3	10870.3	10149.1	9422.7	8626.8	8023.2	7382.2	7008.2	6725.1	6548.9	6490.1
7.5°	10683.3	10202.5	9230.4	8065.9	7035.0	6137.6	5165.4	4508.4	4086.4	3915.4	3755.2
10°	10346.8	9721.8	8242.2	6794.6	5421.8	4107.7	3012.7	2435.8	1997.8	1832.2	1810.8
12.5°	9908.8	9160.9	7318.1	5496.6	3771.2	2446.5	1666.6	1447.6	1324.7	1303.4	1287.3
15°	9545.5	8653.5	6442.0	4257.3	2441.1	1527.7	1298.0	1244.6	1212.6	1201.9	1207.2
17.5°	9299.8	8108.6	5544.6	3098.2	1607.8	1249.9	1196.5	1164.5	1148.5	1143.1	1127.1
20°	8813.7	7649.2	4657.9	2168.7	1255.3	1153.8	1111.1	1084.4	1068.3	1063.0	1057.6
22.5°	8536.0	7067.0	3771.2	1511.7	1116.4	1047.0	1014.9	993.5	966.8	950.8	945.5
25°	8258.2	6639.7	2980.6	1175.2	1014.9	966.8	918.8	892.1	849.3	828.0	822.6
27.5°	7932.3	6217.7	2296.9	1020.3	913.4	865.3	817.3	774.5	721.1	699.8	689.1
30°	7745.4	5806.4	1730.7	913.4	838.6	774.5	715.8	662.4	603.6	566.2	555.5
32.5°	7649.2	5432.5	1298.0	833.3	758.5	689.1	614.3	550.2	496.8	464.7	459.4
35°	7531.7	5069.2	1020.3	758.5	683.7	608.9	534.2	470.1	416.6	389.9	379.3
37.5°	7654.6	4855.6	849.3	699.8	625.0	539.5	459.4	395.3	352.5	325.8	320.5
40°	7991.1	4679.3	737.1	646.3	566.2	475.4	400.6	336.5	299.1	277.8	267.1
42.5°	8509.2	4679.3	667.7	592.9	512.8	416.6	341.9	293.8	256.4	235.0	229.7
45°	9449.4	4823.5	608.9	539.5	448.7	357.9	293.8	245.7	208.3	187.0	181.6
47.5°	10768.8	5154.7	560.9	491.4	400.6	315.2	256.4	208.3	170.9	149.6	144.2
50°	12542.2	5907.9	512.8	432.7	357.9	272.4	213.7	165.6	133.5	112.2	106.8
52.5°	14753.6	6976.2	464.7	400.6	304.5	229.7	170.9	133.5	101.5	85.5	80.1
55°	17093.3	8284.9	406.0	357.9	261.7	192.3	138.9	101.5	74.8	64.1	58.8
57.5°	19448.9	9294.5	357.9	309.8	213.7	154.9	112.2	80.1	53.4	42.7	37.4
60°	20698.9	9390.6	309.8	256.4	170.9	122.9	85.5	58.8	37.4	26.7	21.4
62.5°	20891.2	8536.0	267.1	208.3	138.9	96.1	58.8	42.7	21.4	10.7	10.7
65°	19903.0	7115.1	229.7	165.6	106.8	69.4	42.7	26.7	10.7	5.3	0.0
67°	18300.5	5961.3	197.6	138.9	85.5	53.4	32.0	16.0	5.3	0.0	0.0
67.5°	17680.9	5640.8	187.0	128.2	80.1	48.1	26.7	16.0	5.3	0.0	0.0
70°	13722.7	4027.6	138.9	90.8	58.8	37.4	21.4	10.7	0.0	0.0	0.0
72.5°	8407.8	2355.7	106.8	64.1	42.7	26.7	16.0	5.3	0.0	0.0	0.0
75°	3525.5	811.9	90.8	48.1	32.0	16.0	10.7	5.3	0.0	0.0	0.0
77.5°	918.8	304.5	64.1	32.0	21.4	16.0	10.7	5.3	0.0	0.0	0.0
80°	373.9	138.9	42.7	21.4	21.4	16.0	10.7	5.3	0.0	0.0	0.0
82.5°	245.7	64.1	26.7	21.4	16.0	10.7	5.3	0.0	0.0	0.0	0.0
85°	187.0	37.4	16.0	16.0	10.7	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	80.1	21.4	16.0	10.7	10.7	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)