

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: P484301

Luminaire Tested: **IFLD-M-SA4C-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

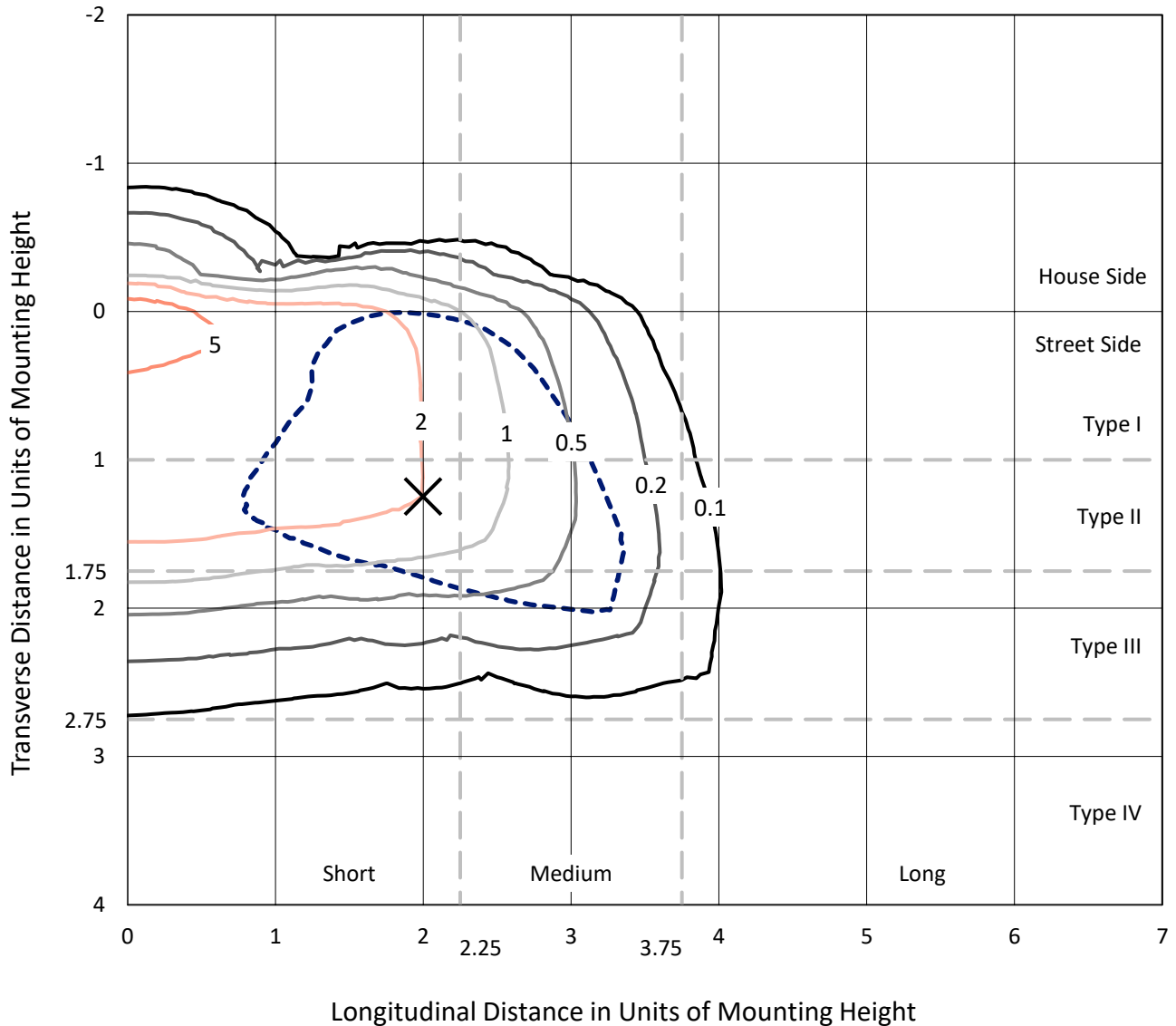
Lumens per Lamp: N/A
Luminaire Lumens: 19884.9 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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: P484301
 CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

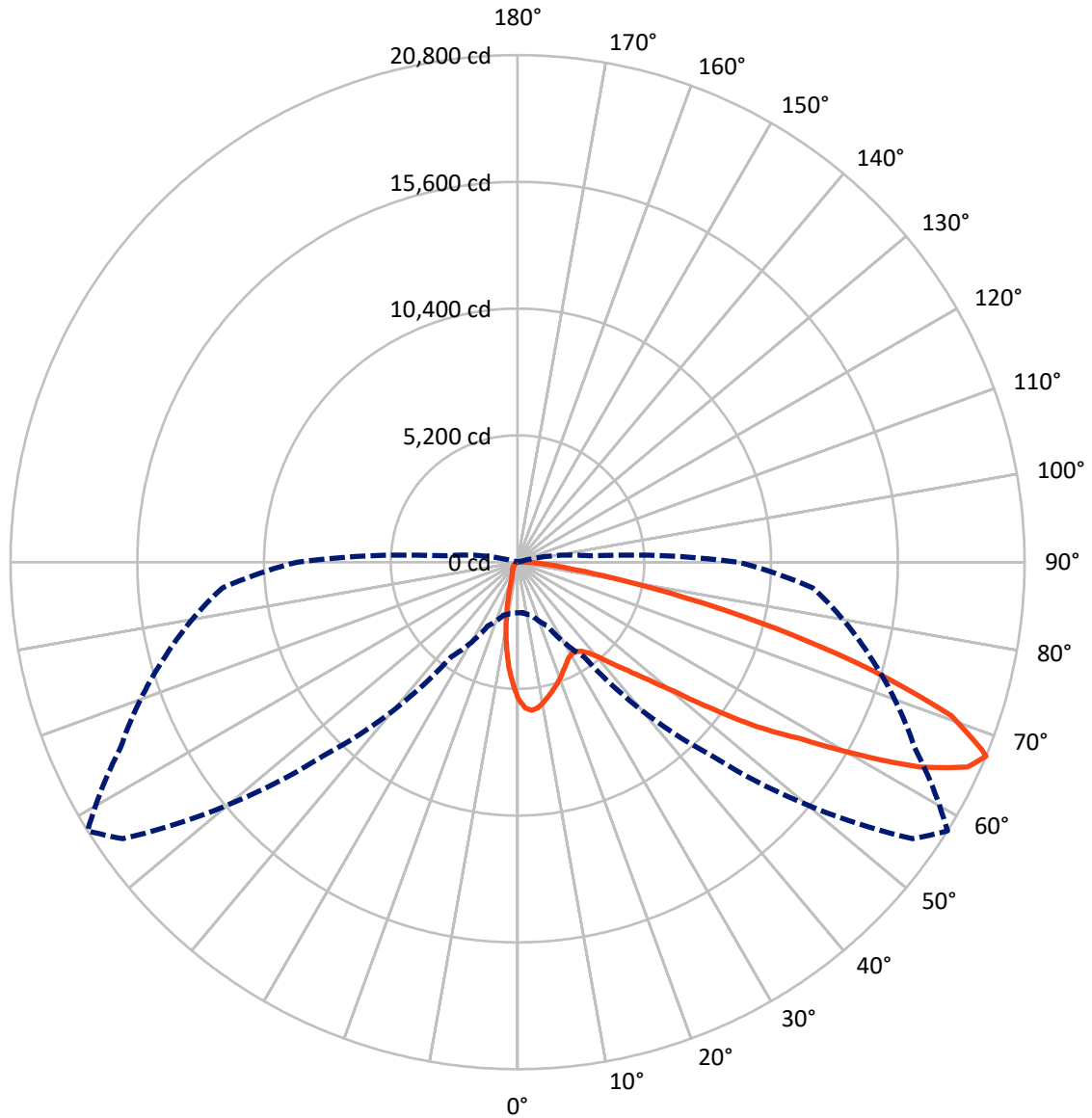
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

REPORT NUMBER: P484301
CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484301
 CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3-HSS

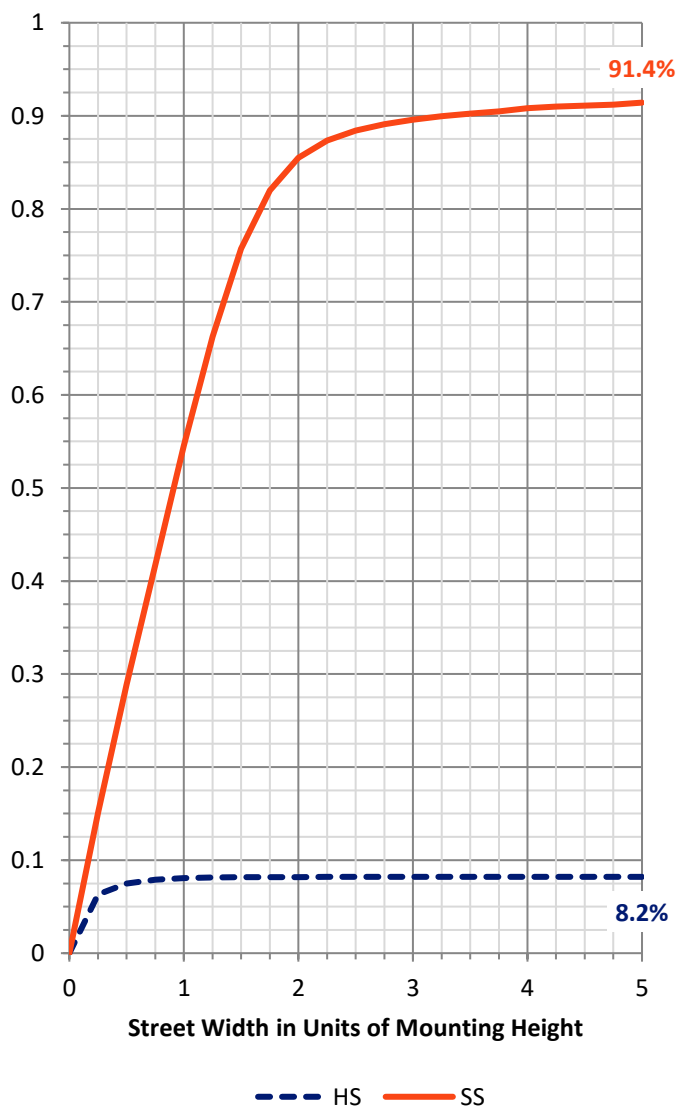
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.6	0.0	1643.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	18241.3	0.0	18241.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	19884.9	0.0	19884.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.0	2.2
10°-20°	927.2	4.7
20°-30°	1230.2	6.2
30°-40°	1704.6	8.6
40°-50°	2781.4	14.0
50°-60°	4888.9	24.6
60°-70°	5414.8	27.2
70°-80°	2243.9	11.3
80°-90°	247.0	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°	19884.9	100.0
0°-180°	19884.9	100.0

Coefficient of Utilization



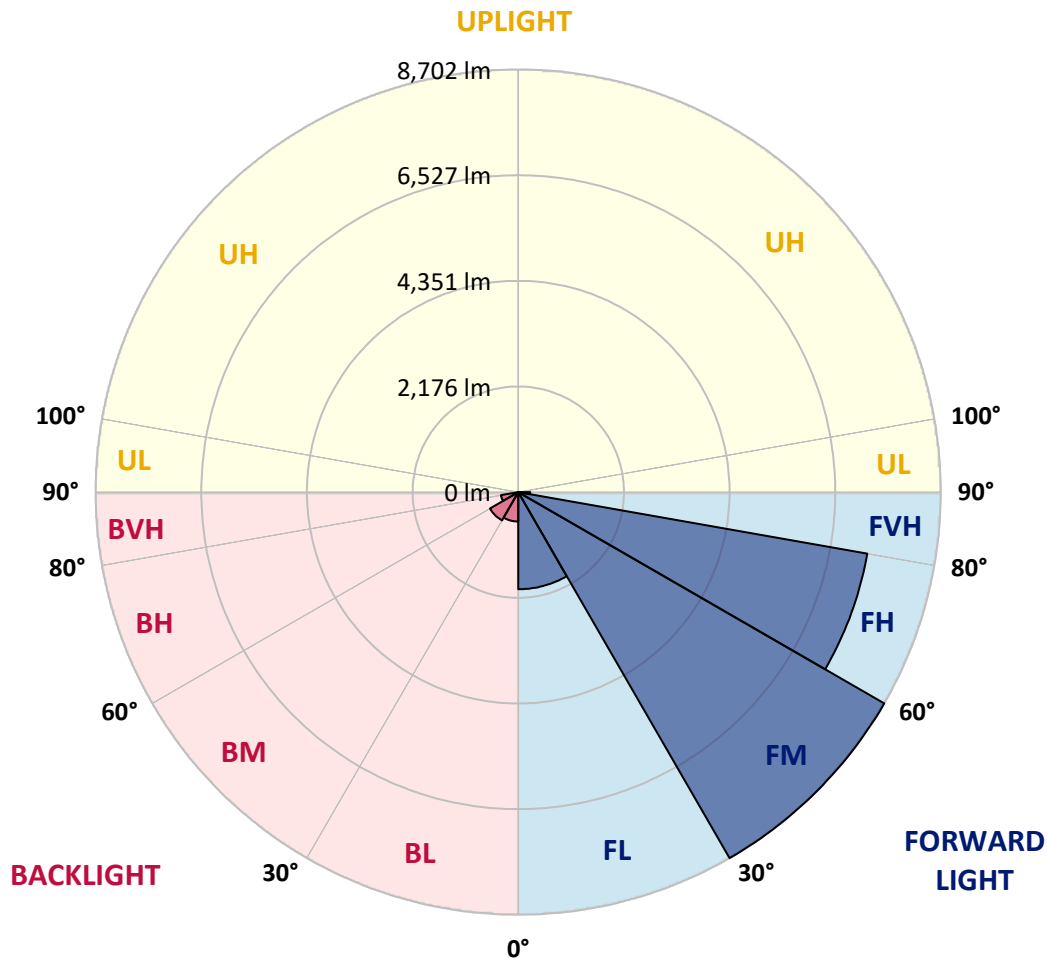
REPORT NUMBER: P484301
 CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1999.0	10.1			
FM (30°-60°)	8702.1	43.8			
FH (60°-80°)	7297.3	36.7			G3/7500
FVH (80°-90°)	243.0	1.2			G3/500
BL (0°-30°)	605.4	3.0	B2/1000		
BM (30°-60°)	672.8	3.4	B1/1000		
BH (60°-80°)	361.4	1.8	B1/500		G1/500
BVH (80°-90°)	4.1	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-G3

Type III Short





REPORT NUMBER: P484301

CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7
2.5°	6130.0	6151.1	6169.6	6135.3	6164.3	6122.1	6013.8	5990.1	5971.6	5810.6	5718.2
5°	6127.3	6103.6	6122.1	6137.9	6098.3	6130.0	6103.6	6106.2	6034.9	5889.8	5631.0
7.5°	5718.2	5707.6	5718.2	5794.7	5881.8	5950.5	5990.1	6029.7	5982.1	5765.7	5514.9
10°	5166.4	5219.2	5248.2	5385.5	5520.2	5646.9	5771.0	5844.9	5831.7	5744.6	5388.2
12.5°	4781.0	4765.1	4870.7	4960.5	5095.1	5351.2	5567.7	5636.3	5715.5	5594.1	5221.8
15°	4424.6	4382.3	4445.7	4601.5	4831.1	5034.4	5338.0	5441.0	5541.3	5573.0	5132.1
17.5°	4084.0	4105.1	4171.1	4311.1	4527.5	4812.6	5097.8	5245.6	5485.8	5443.6	4997.4
20°	3920.3	3965.2	3989.0	4060.3	4210.7	4495.9	4920.9	5039.7	5295.8	5441.0	4865.4
22.5°	3928.3	3928.3	3872.8	3915.1	4052.3	4274.1	4680.6	4812.6	5219.2	5303.7	4746.6
25°	4012.7	3959.9	3962.6	3912.4	3970.5	4091.9	4464.2	4625.2	5063.4	5316.9	4683.3
27.5°	4076.1	4065.5	4049.7	4036.5	3962.6	3981.1	4321.6	4453.6	5002.7	5301.0	4585.6
30°	4305.8	4258.3	4242.4	4213.4	4115.7	4025.9	4208.1	4374.4	4955.2	5338.0	4530.2
32.5°	4498.5	4506.4	4519.6	4435.1	4350.7	4128.9	4239.8	4371.8	4920.9	5422.5	4585.6
35°	4741.4	4775.7	4781.0	4754.6	4664.8	4445.7	4371.8	4485.3	4979.0	5573.0	4590.9
37.5°	5111.0	5074.0	5174.3	5184.9	5121.5	4831.1	4678.0	4722.9	5150.6	5813.2	4791.5
40°	5351.2	5396.1	5583.5	5699.7	5591.4	5327.4	5121.5	5113.6	5398.7	6190.7	5039.7
42.5°	5617.8	5718.2	5924.1	6174.9	6161.7	5916.2	5707.6	5673.3	5839.6	6737.2	5433.0
45°	5982.1	6071.9	6359.7	6737.2	6943.1	6734.5	6420.4	6351.7	6375.5	7481.6	6103.6
47.5°	6586.7	6562.9	6977.4	7349.6	7687.6	7526.5	7391.9	7191.3	7172.8	8358.1	7030.2
50°	7270.4	7265.2	7634.8	8057.2	8447.9	8762.0	8537.6	8318.5	8323.8	9548.7	8120.5
52.5°	7919.9	8022.8	8421.5	8841.2	9511.8	9849.7	10066.2	9979.0	9559.3	10612.6	9287.4
55°	8263.1	8352.8	8748.8	9472.2	10530.8	11399.3	11985.4	11911.5	11101.0	11811.2	10438.4
57.5°	7938.4	7999.1	8535.0	9482.7	11243.6	13181.3	13743.6	13651.2	12695.6	12727.2	11829.7
60°	6578.8	6673.8	7471.1	8582.5	10966.4	14554.1	16164.5	16024.6	14147.5	13886.2	12724.6
62.5°	4556.6	4619.9	5274.6	6658.0	9651.7	15031.9	18450.7	18527.2	15678.7	14789.1	12991.2
65°	2951.5	2946.2	3321.1	4258.3	6840.1	13585.2	19802.3	20277.5	17157.1	14926.3	12909.4
67°	2085.6	2077.6	2254.5	2888.1	4736.1	11193.4	19778.6	20800.2	17959.6	14965.9	12151.7
67.5°	1924.5	1916.6	2085.6	2655.8	4274.1	10409.4	19482.9	20531.0	18242.1	14910.5	11819.1
70°	1494.2	1473.1	1536.5	1829.5	2489.5	6731.9	16674.0	18859.9	17656.1	13527.2	9437.9
72.5°	1079.7	1103.5	1203.8	1502.1	1953.6	3622.0	12708.8	15251.0	14746.8	10195.5	5998.0
75°	752.4	773.5	934.5	1224.9	1792.5	2196.4	8593.1	11061.4	10272.1	5628.4	2555.5
77.5°	393.4	419.8	596.6	979.4	1628.9	1700.1	5134.7	7014.4	5443.6	2003.7	704.9
80°	182.2	195.4	298.3	694.3	1362.2	1494.2	2993.7	3901.9	2178.0	448.8	242.9
82.5°	79.2	87.1	137.3	398.6	966.2	1306.8	1853.3	2046.0	789.3	145.2	150.5
85°	15.8	18.5	52.8	211.2	467.3	792.0	1301.5	1214.4	396.0	71.3	118.8
87.5°	0.0	0.0	13.2	60.7	126.7	235.0	551.8	551.8	121.4	37.0	44.9
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: P484301

CATALOG NUMBER: IFLD-M-SA4C-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7	5633.7
2.5°	5636.3	5541.3	5332.7	5140.0	5002.7	4847.0	4641.0	4548.7	4514.3	4466.8	4395.5
5°	5488.5	5372.3	5015.9	4656.9	4263.5	3965.2	3648.4	3463.6	3323.7	3236.6	3207.6
7.5°	5279.9	5042.3	4561.9	3986.3	3476.8	3033.3	2552.8	2228.1	2019.6	1935.1	1855.9
10°	5113.6	4804.7	4073.5	3358.0	2679.6	2030.1	1488.9	1203.8	987.3	905.5	894.9
12.5°	4897.1	4527.5	3616.7	2716.5	1863.8	1209.1	823.7	715.4	654.7	644.2	636.2
15°	4717.6	4276.7	3183.8	2104.0	1206.5	755.0	641.5	615.1	599.3	594.0	596.6
17.5°	4596.2	4007.5	2740.3	1531.2	794.6	617.8	591.4	575.5	567.6	565.0	557.0
20°	4355.9	3780.4	2302.0	1071.8	620.4	570.2	549.1	535.9	528.0	525.4	522.7
22.5°	4218.7	3492.7	1863.8	747.1	551.8	517.4	501.6	491.0	477.8	469.9	467.3
25°	4081.4	3281.5	1473.1	580.8	501.6	477.8	454.1	440.9	419.8	409.2	406.6
27.5°	3920.3	3072.9	1135.2	504.2	451.4	427.7	403.9	382.8	356.4	345.8	340.6
30°	3827.9	2869.6	855.3	451.4	414.5	382.8	353.8	327.4	298.3	279.8	274.6
32.5°	3780.4	2684.8	641.5	411.8	374.9	340.6	303.6	271.9	245.5	229.7	227.0
35°	3722.3	2505.3	504.2	374.9	337.9	301.0	264.0	232.3	205.9	192.7	187.4
37.5°	3783.1	2399.7	419.8	345.8	308.9	266.6	227.0	195.4	174.2	161.0	158.4
40°	3949.4	2312.6	364.3	319.4	279.8	235.0	198.0	166.3	147.8	137.3	132.0
42.5°	4205.5	2312.6	330.0	293.0	253.4	205.9	169.0	145.2	126.7	116.2	113.5
45°	4670.1	2383.9	301.0	266.6	221.8	176.9	145.2	121.4	103.0	92.4	89.8
47.5°	5322.2	2547.6	277.2	242.9	198.0	155.8	126.7	103.0	84.5	73.9	71.3
50°	6198.6	2919.8	253.4	213.8	176.9	134.6	105.6	81.8	66.0	55.4	52.8
52.5°	7291.6	3447.8	229.7	198.0	150.5	113.5	84.5	66.0	50.2	42.2	39.6
55°	8447.9	4094.6	200.6	176.9	129.4	95.0	68.6	50.2	37.0	31.7	29.0
57.5°	9612.1	4593.5	176.9	153.1	105.6	76.6	55.4	39.6	26.4	21.1	18.5
60°	10229.8	4641.0	153.1	126.7	84.5	60.7	42.2	29.0	18.5	13.2	10.6
62.5°	10324.9	4218.7	132.0	103.0	68.6	47.5	29.0	21.1	10.6	5.3	5.3
65°	9836.5	3516.4	113.5	81.8	52.8	34.3	21.1	13.2	5.3	2.6	0.0
67°	9044.5	2946.2	97.7	68.6	42.2	26.4	15.8	7.9	2.6	0.0	0.0
67.5°	8738.3	2787.8	92.4	63.4	39.6	23.8	13.2	7.9	2.6	0.0	0.0
70°	6782.1	1990.5	68.6	44.9	29.0	18.5	10.6	5.3	0.0	0.0	0.0
72.5°	4155.3	1164.2	52.8	31.7	21.1	13.2	7.9	2.6	0.0	0.0	0.0
75°	1742.4	401.3	44.9	23.8	15.8	7.9	5.3	2.6	0.0	0.0	0.0
77.5°	454.1	150.5	31.7	15.8	10.6	7.9	5.3	2.6	0.0	0.0	0.0
80°	184.8	68.6	21.1	10.6	10.6	7.9	5.3	2.6	0.0	0.0	0.0
82.5°	121.4	31.7	13.2	10.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0
85°	92.4	18.5	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	39.6	10.6	7.9	5.3	5.3	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)