

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: P483414

Luminaire Tested: **IFLD-L-SA8C-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483414
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

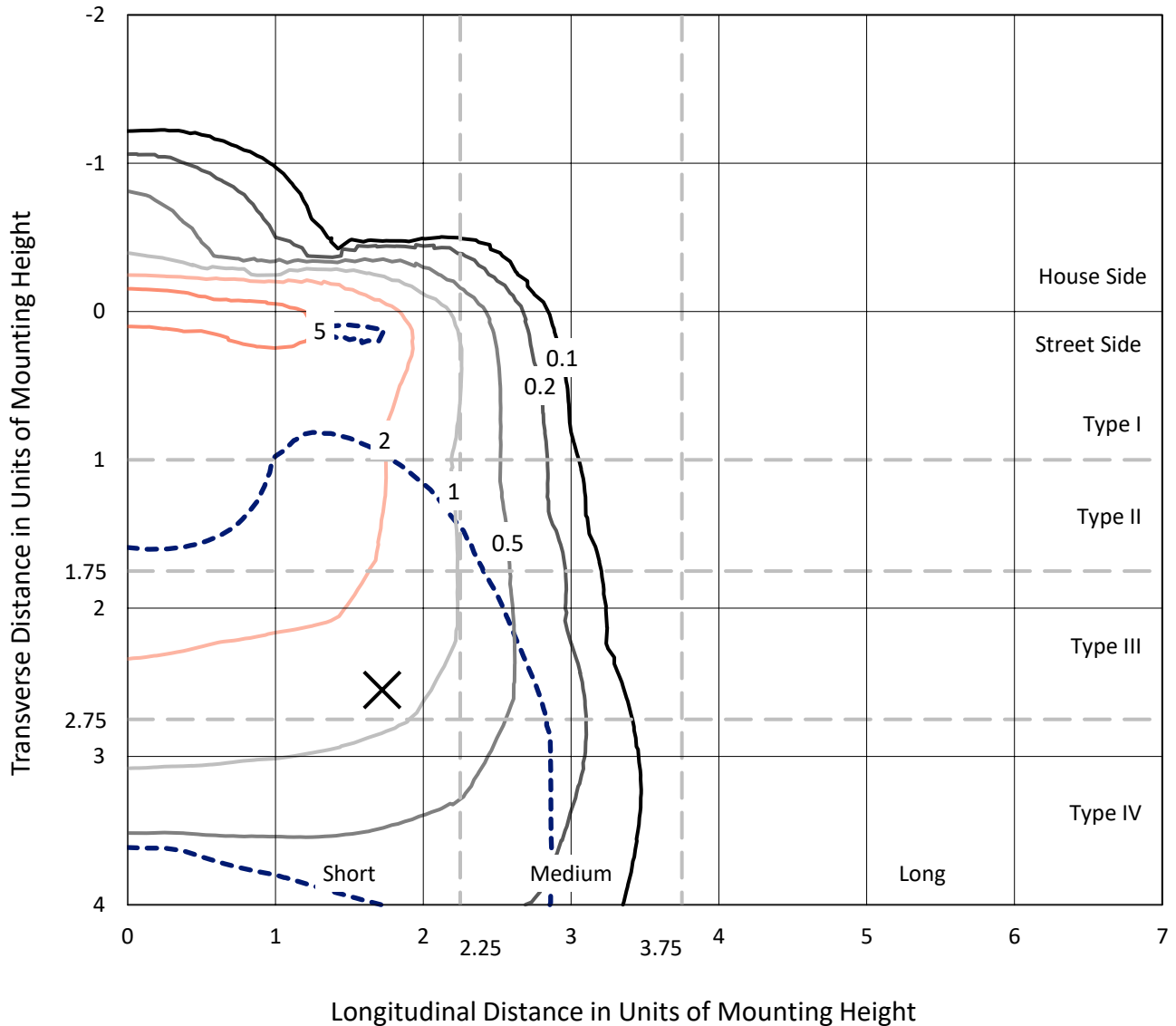
Lumens per Lamp: N/A
Luminaire Lumens: 29109.8 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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: P483414
 CATALOG NUMBER: IFLD-L-SA8C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

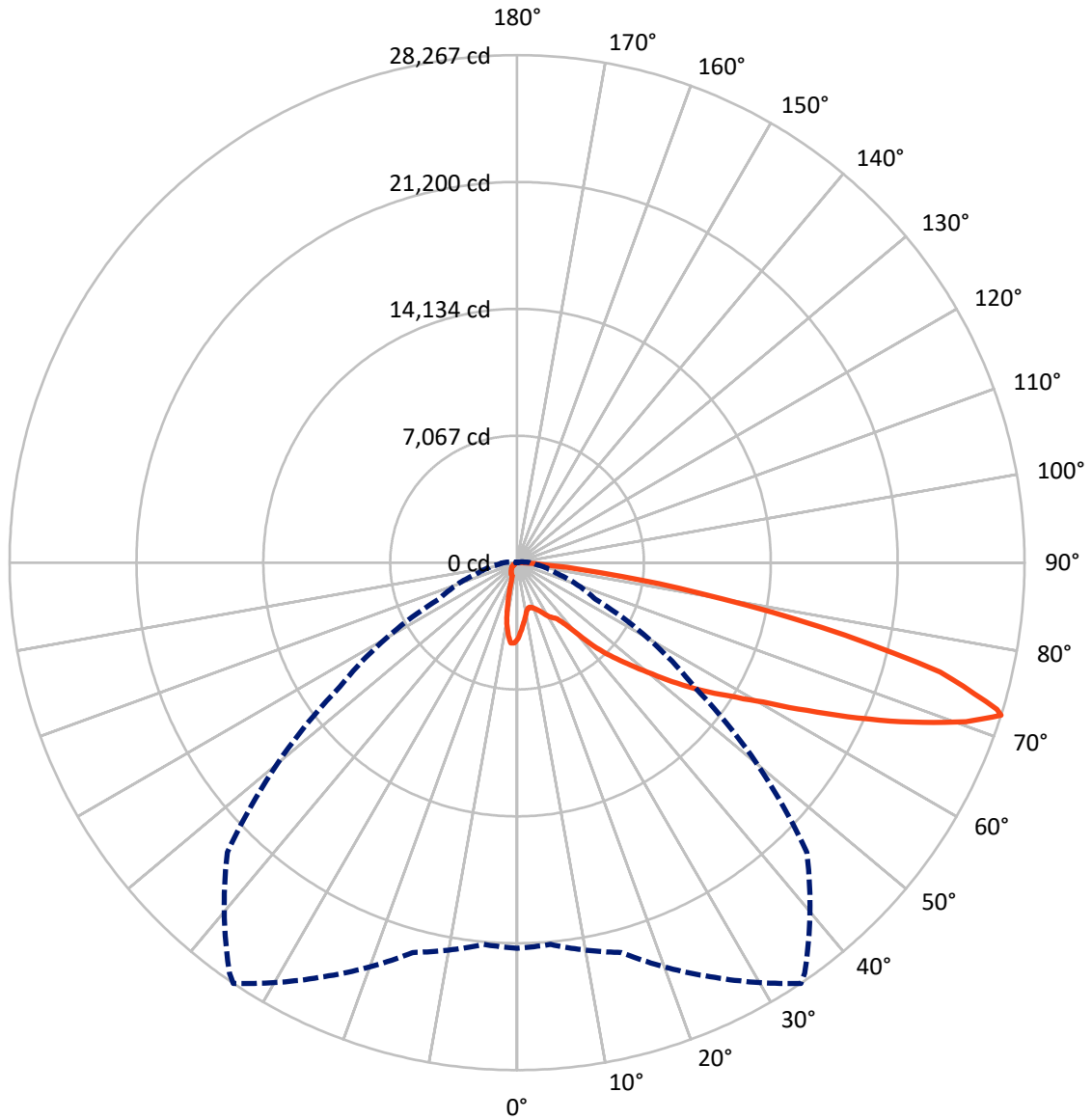
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483414
CATALOG NUMBER: IFLD-L-SA8C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



REPORT NUMBER: P483414
 CATALOG NUMBER: IFLD-L-SA8C-830-U-T4FT-HSS

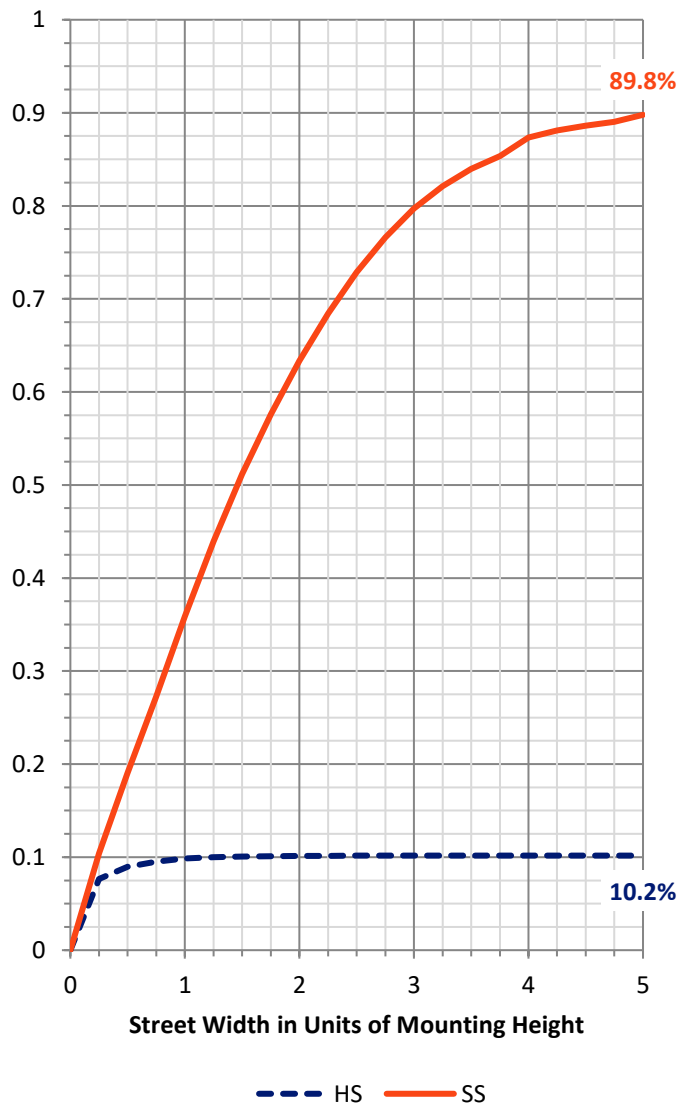
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2980.1	0.0	2980.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	26129.6	0.0	26129.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	29109.8	0.0	29109.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.7	1.3
10°-20°	837.0	2.9
20°-30°	1263.4	4.3
30°-40°	2050.2	7.0
40°-50°	3855.2	13.2
50°-60°	6303.4	21.7
60°-70°	8379.5	28.8
70°-80°	5611.7	19.3
80°-90°	439.8	1.5
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°	29109.8	100.0
0°-180°	29109.8	100.0

Coefficient of Utilization

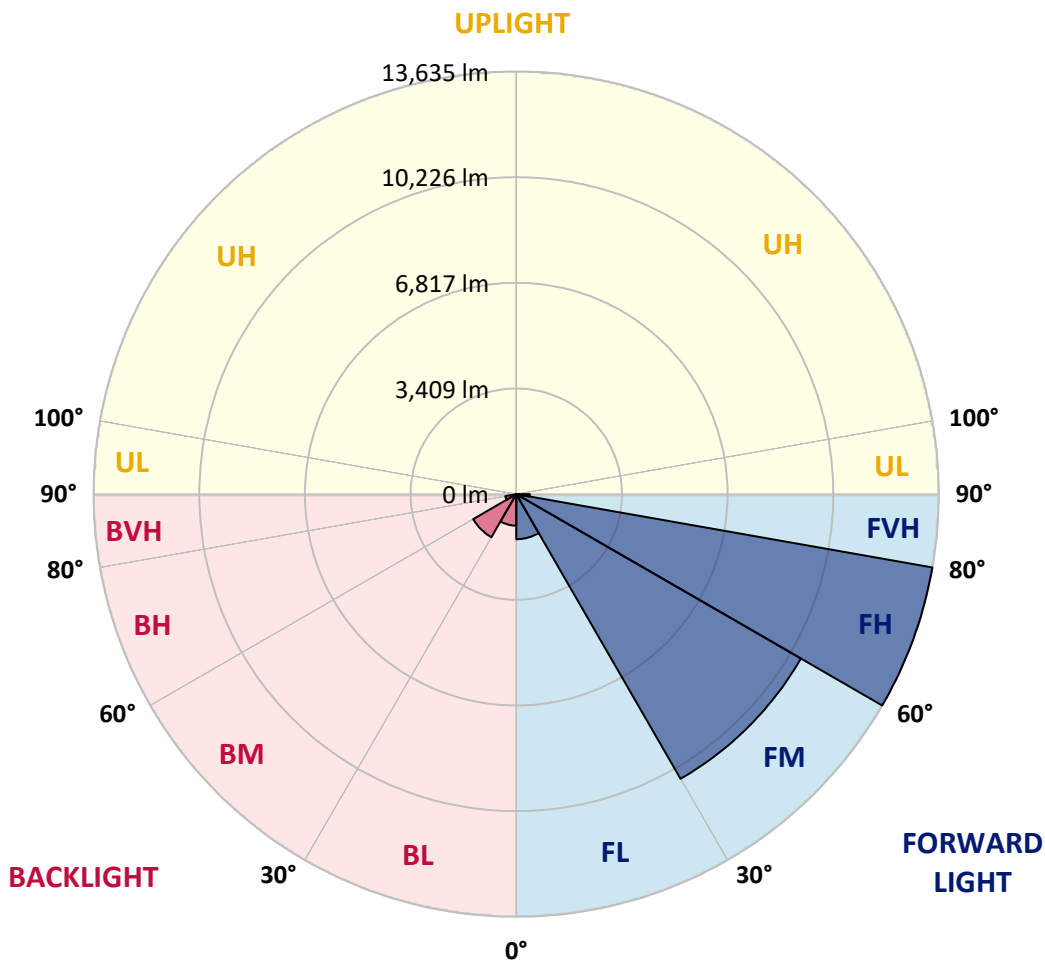


REPORT NUMBER: P483414
 CATALOG NUMBER: IFLD-L-SA8C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.2	5.0			
FM (30°-60°)	10604.6	36.4			
FH (60°-80°)	13634.8	46.8			G5
FVH (80°-90°)	437.0	1.5			G3/500
BL (0°-30°)	1016.8	3.5	B3/2500		
BM (30°-60°)	1604.2	5.5	B2/2500		
BH (60°-80°)	356.4	1.2	B1/500		G1/500
BVH (80°-90°)	2.8	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: P483414

CATALOG NUMBER: IFLD-L-SA8C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8
2.5°	3766.4	3758.0	3783.2	3825.3	3867.4	3850.6	3930.5	4014.7	4073.6	4153.6	4250.4
5°	3290.9	3311.9	3337.2	3421.3	3476.0	3488.7	3636.0	3745.4	3926.3	4111.5	4284.0
7.5°	2857.4	2882.7	2933.2	3025.8	3139.4	3168.8	3316.1	3535.0	3770.6	4014.7	4296.7
10°	2541.8	2567.1	2621.8	2680.7	2832.2	2832.2	3034.2	3337.2	3644.4	3930.5	4300.9
12.5°	2474.5	2487.1	2482.9	2529.2	2626.0	2647.0	2844.8	3177.3	3535.0	3901.1	4368.2
15°	2554.4	2562.8	2520.8	2495.5	2579.7	2600.7	2785.9	3080.5	3463.4	3917.9	4477.6
17.5°	2714.3	2684.9	2600.7	2562.8	2634.4	2647.0	2819.5	3076.3	3455.0	3964.2	4603.9
20°	2806.9	2840.6	2693.3	2621.8	2722.8	2739.6	2924.8	3143.6	3497.1	4044.2	4780.6
22.5°	2971.0	2987.9	2790.1	2743.8	2840.6	2840.6	3051.0	3278.3	3598.1	4174.6	4991.0
25°	3202.5	3181.5	2950.0	2903.7	2996.3	3034.2	3244.6	3492.9	3753.8	4296.7	5184.6
27.5°	3383.5	3396.1	3206.7	3084.7	3240.4	3265.6	3492.9	3724.3	3871.6	4397.7	5420.3
30°	3652.8	3627.5	3425.5	3286.7	3480.2	3484.5	3703.3	3943.2	4098.9	4578.6	5773.8
32.5°	3972.6	3922.1	3690.7	3492.9	3648.6	3686.5	3909.5	4258.8	4452.4	4919.5	6320.8
35°	4650.2	4528.1	4149.4	3842.2	3854.8	3871.6	4216.7	4717.5	4940.5	5352.9	7053.1
37.5°	5639.1	5588.6	5159.4	4574.4	4351.4	4300.9	4688.0	5323.5	5601.2	5925.3	8004.2
40°	6619.6	6548.1	6148.3	5706.4	5302.4	5201.4	5395.0	6127.3	6379.8	6720.6	8980.5
42.5°	7709.6	7583.3	7112.0	6754.3	6501.8	6392.4	6316.6	7137.2	7423.4	7654.9	9935.8
45°	8812.1	8605.9	7924.2	7650.7	7516.0	7457.1	7448.7	8408.1	8580.7	8627.0	10996.2
47.5°	9780.0	9557.0	8938.4	8631.2	8530.2	8513.4	8984.7	9872.6	9738.0	9615.9	12178.8
50°	10524.9	10381.8	9935.8	9826.3	9750.6	9721.1	10823.7	11379.2	10756.4	10541.7	13218.2
52.5°	11678.0	11358.2	10853.2	10891.0	11156.2	11160.4	12688.0	12810.0	11602.2	11177.2	14198.7
55°	12599.6	12389.2	11976.8	11922.1	12620.6	12696.4	14358.7	13895.7	12073.6	11783.2	14560.7
57.5°	13685.3	13588.5	13289.8	13298.2	14030.4	14190.3	15844.2	14813.2	12464.9	12174.6	14615.4
60°	15255.0	14977.3	14821.6	14893.1	15755.8	15911.5	17283.4	15473.9	12654.3	12431.3	14480.7
62.5°	16988.8	16664.8	16496.5	16862.6	18120.9	18146.1	18377.6	16058.8	12536.5	12498.6	13613.8
65°	19076.1	18756.3	18621.7	19358.1	20852.0	20759.5	19913.6	16307.1	12161.9	11821.1	11337.1
67.5°	21155.0	20961.5	20683.7	21857.8	23717.9	23717.9	21508.5	16214.5	11181.4	9489.7	7415.0
70°	22139.8	22274.4	22716.3	24559.5	26533.2	26331.2	23082.4	15149.8	8324.0	5096.2	2916.3
72°	21483.3	21344.4	22484.9	25443.3	28267.0	27934.6	22817.3	12044.1	4810.1	2234.6	1014.2
72.5°	20355.5	20485.9	22055.6	25321.2	27943.0	28216.5	22169.2	11109.9	3955.8	1780.1	765.9
75°	12481.8	12704.8	16462.8	21500.1	24349.1	24041.9	17148.8	5294.0	1519.2	757.5	273.5
77.5°	4557.6	4742.7	7987.3	13529.6	17317.1	17123.5	9923.1	1881.1	824.8	563.9	138.9
80°	1186.7	1283.5	2714.3	6240.9	10184.0	10196.7	4153.6	753.3	559.7	462.9	84.2
82.5°	235.7	260.9	833.2	2428.2	4759.6	4696.4	1313.0	404.0	420.8	378.7	58.9
85°	29.5	37.9	176.7	824.8	1540.2	1380.3	324.0	202.0	311.4	294.6	37.9
87.5°	4.2	4.2	42.1	189.4	324.0	315.6	67.3	63.1	138.9	181.0	21.0
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: P483414

CATALOG NUMBER: IFLD-L-SA8C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8
2.5°	4305.1	4321.9	4380.8	4431.3	4490.2	4507.1	4481.8	4523.9	4465.0	4498.7	4507.1
5°	4313.5	4410.3	4519.7	4591.2	4574.4	4532.3	4498.7	4385.0	4305.1	4275.6	4338.7
7.5°	4372.4	4481.8	4599.7	4599.7	4507.1	4288.2	4077.8	3875.8	3707.5	3623.3	3694.9
10°	4448.2	4561.8	4683.8	4523.9	4178.8	3779.0	3480.2	3101.5	2844.8	2710.1	2722.8
12.5°	4549.2	4709.1	4751.2	4380.8	3808.5	3215.1	2672.3	2146.2	1902.1	1708.6	1712.8
15°	4679.6	4835.3	4709.1	4069.4	3337.2	2461.8	1809.6	1308.8	1115.2	1014.2	1014.2
17.5°	4852.1	4970.0	4696.4	3783.2	2701.7	1683.3	1111.0	883.7	841.7	824.8	824.8
20°	5054.1	5142.5	4574.4	3337.2	2007.4	1081.5	816.4	791.2	795.4	786.9	786.9
22.5°	5281.4	5310.9	4435.5	2819.5	1359.3	799.6	761.7	765.9	770.1	761.7	765.9
25°	5521.3	5441.3	4233.5	2213.6	904.8	728.0	736.4	744.9	749.1	753.3	753.3
27.5°	5790.6	5630.7	3951.6	1620.2	707.0	686.0	711.2	736.4	740.7	740.7	736.4
30°	6186.2	5921.1	3678.0	1098.4	622.8	639.7	681.7	711.2	732.2	732.2	728.0
32.5°	6687.0	6224.1	3295.1	749.1	576.5	585.0	618.6	677.5	723.8	728.0	715.4
35°	7381.3	6590.2	2895.3	597.6	542.9	547.1	568.1	614.4	694.4	719.6	715.4
37.5°	8113.6	7006.8	2398.7	538.7	517.6	513.4	526.0	563.9	635.5	698.6	702.8
40°	8892.1	7444.5	1876.9	509.2	496.6	488.2	492.4	509.2	563.9	643.9	660.7
42.5°	9624.3	7840.0	1409.8	479.7	475.5	467.1	467.1	471.3	500.8	555.5	563.9
45°	10415.5	8164.1	1073.1	458.7	446.1	450.3	433.5	425.0	446.1	450.3	446.1
47.5°	11156.2	8488.1	858.5	433.5	420.8	420.8	399.8	383.0	383.0	345.1	340.9
50°	11850.5	8664.9	686.0	399.8	395.6	391.4	361.9	332.5	307.2	260.9	252.5
52.5°	12427.1	8656.4	530.2	357.7	370.3	357.7	311.4	269.3	231.5	189.4	181.0
55°	12599.6	8252.4	399.8	294.6	315.6	298.8	248.3	210.4	168.3	134.7	130.5
57.5°	12452.3	7638.0	303.0	227.2	244.1	227.2	189.4	155.7	117.8	92.6	84.2
60°	11959.9	6918.4	235.7	176.7	185.2	172.5	143.1	117.8	84.2	58.9	50.5
62.5°	11025.7	6017.8	181.0	138.9	134.7	134.7	109.4	88.4	58.9	33.7	29.5
65°	9047.8	4692.2	138.9	96.8	96.8	96.8	84.2	63.1	37.9	16.8	8.4
67.5°	5681.2	2731.2	113.6	75.7	71.5	71.5	58.9	42.1	21.0	4.2	0.0
70°	2137.8	1001.6	88.4	58.9	54.7	54.7	42.1	25.2	12.6	0.0	0.0
72°	736.4	383.0	71.5	42.1	42.1	37.9	29.5	21.0	8.4	0.0	0.0
72.5°	606.0	307.2	67.3	42.1	37.9	37.9	29.5	21.0	8.4	0.0	0.0
75°	218.8	126.2	46.3	29.5	25.2	25.2	21.0	12.6	4.2	0.0	0.0
77.5°	109.4	80.0	37.9	25.2	21.0	12.6	12.6	8.4	4.2	0.0	0.0
80°	67.3	50.5	21.0	16.8	12.6	8.4	4.2	4.2	0.0	0.0	0.0
82.5°	46.3	29.5	12.6	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0
85°	29.5	12.6	8.4	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	8.4	4.2	0.0	0.0	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)