

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: P481279

Luminaire Tested: **IFLD-S-SA3D-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481279
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

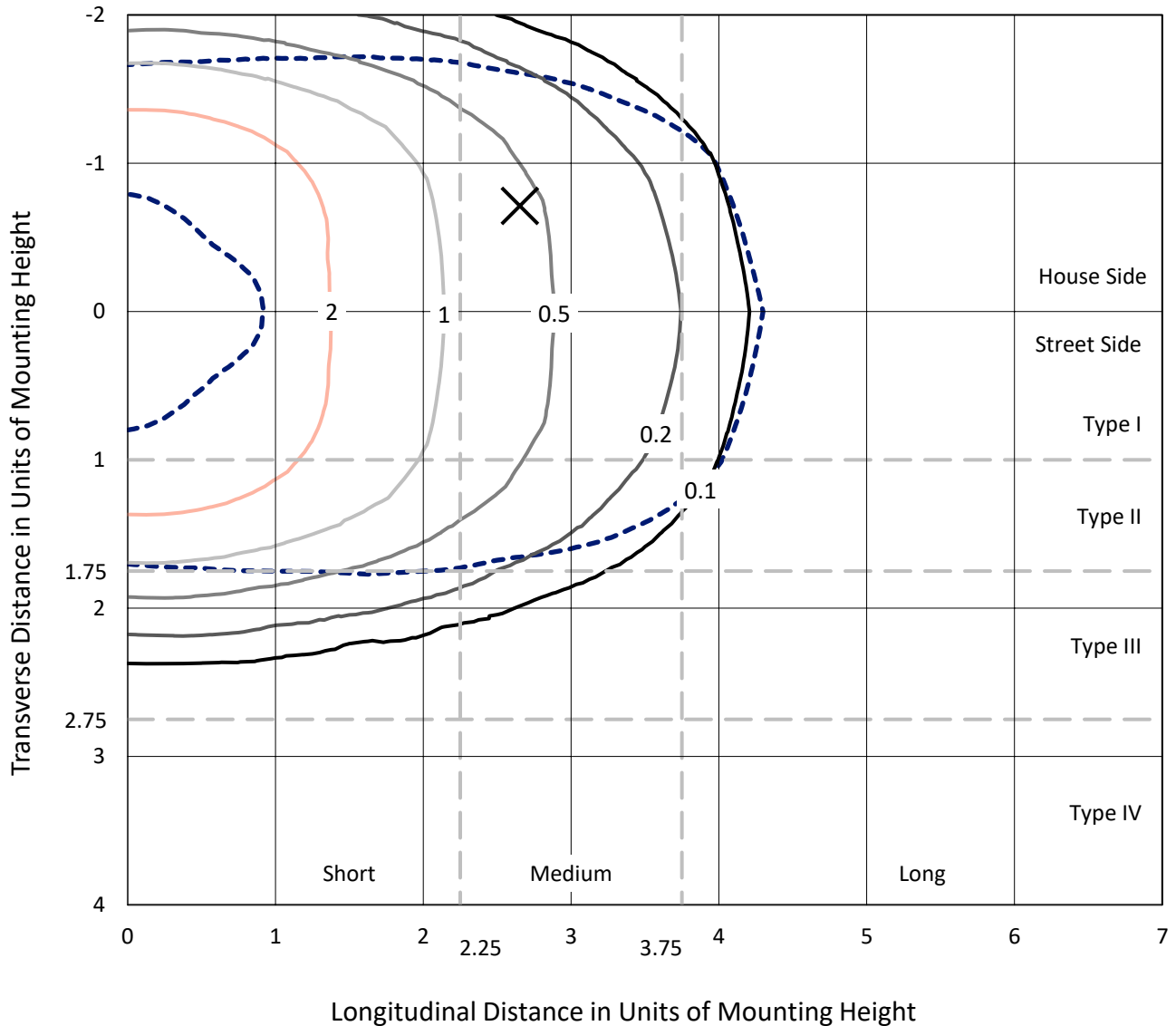
Lumens per Lamp: N/A
Luminaire Lumens: 24006.8 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 184.1
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: P481279
 CATALOG NUMBER: IFLD-S-SA3D-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

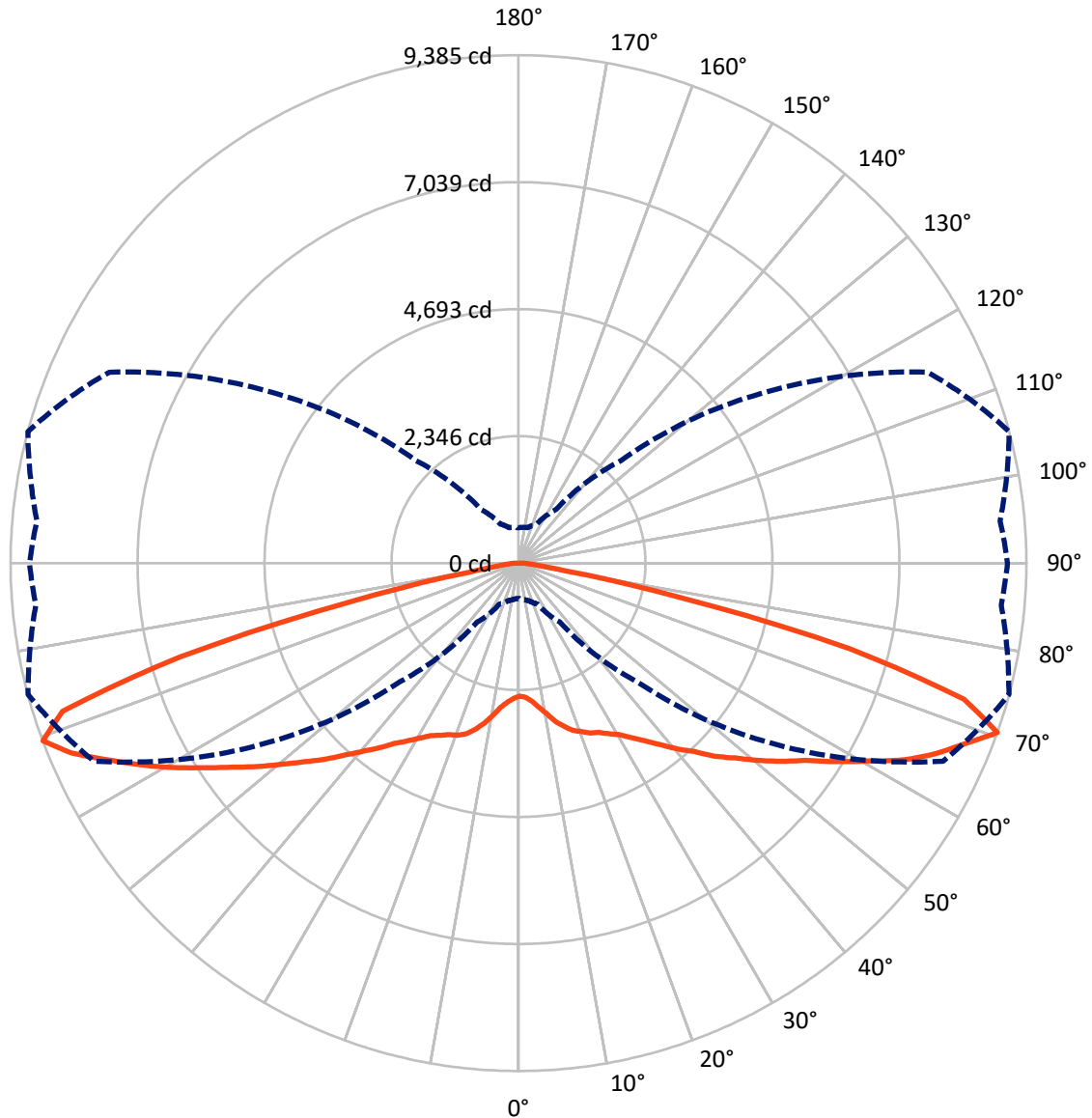
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

REPORT NUMBER: P481279
CATALOG NUMBER: IFLD-S-SA3D-740-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481279
 CATALOG NUMBER: IFLD-S-SA3D-740-U-RW

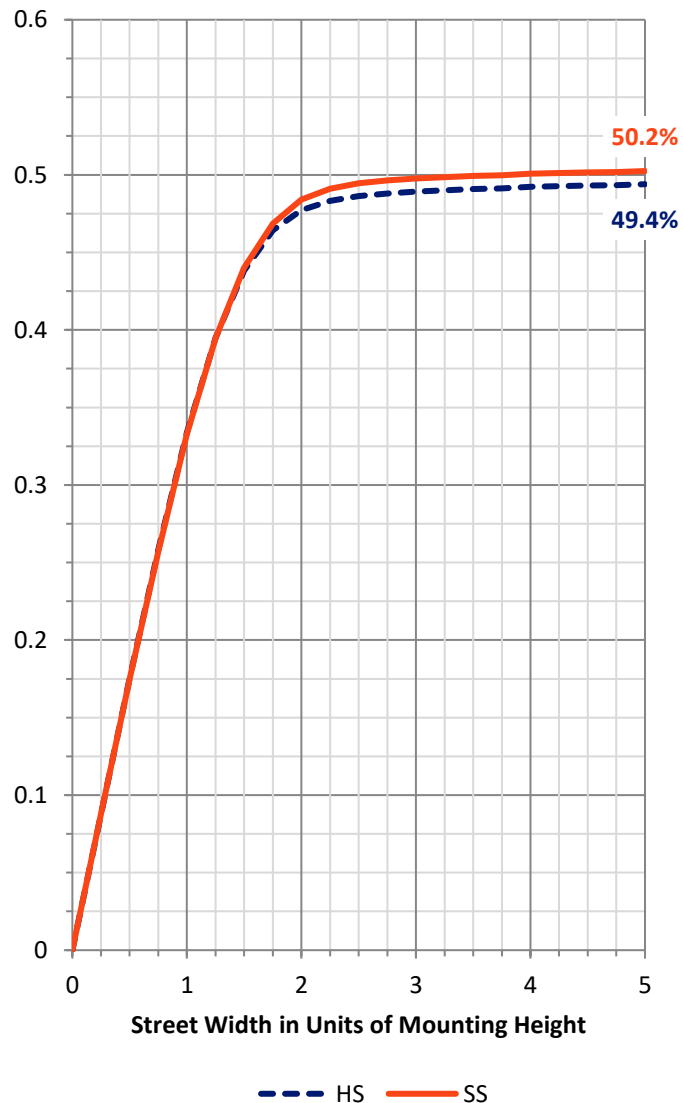
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11918.0	0.0	11918.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12088.8	0.0	12088.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	24006.8	0.0	24006.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	1.0
10°-20°	833.1	3.5
20°-30°	1613.2	6.7
30°-40°	2728.6	11.4
40°-50°	4352.9	18.1
50°-60°	5958.2	24.8
60°-70°	5616.0	23.4
70°-80°	2474.0	10.3
80°-90°	186.1	0.8
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°	24006.8	100.0
0°-180°	24006.8	100.0

Coefficient of Utilization



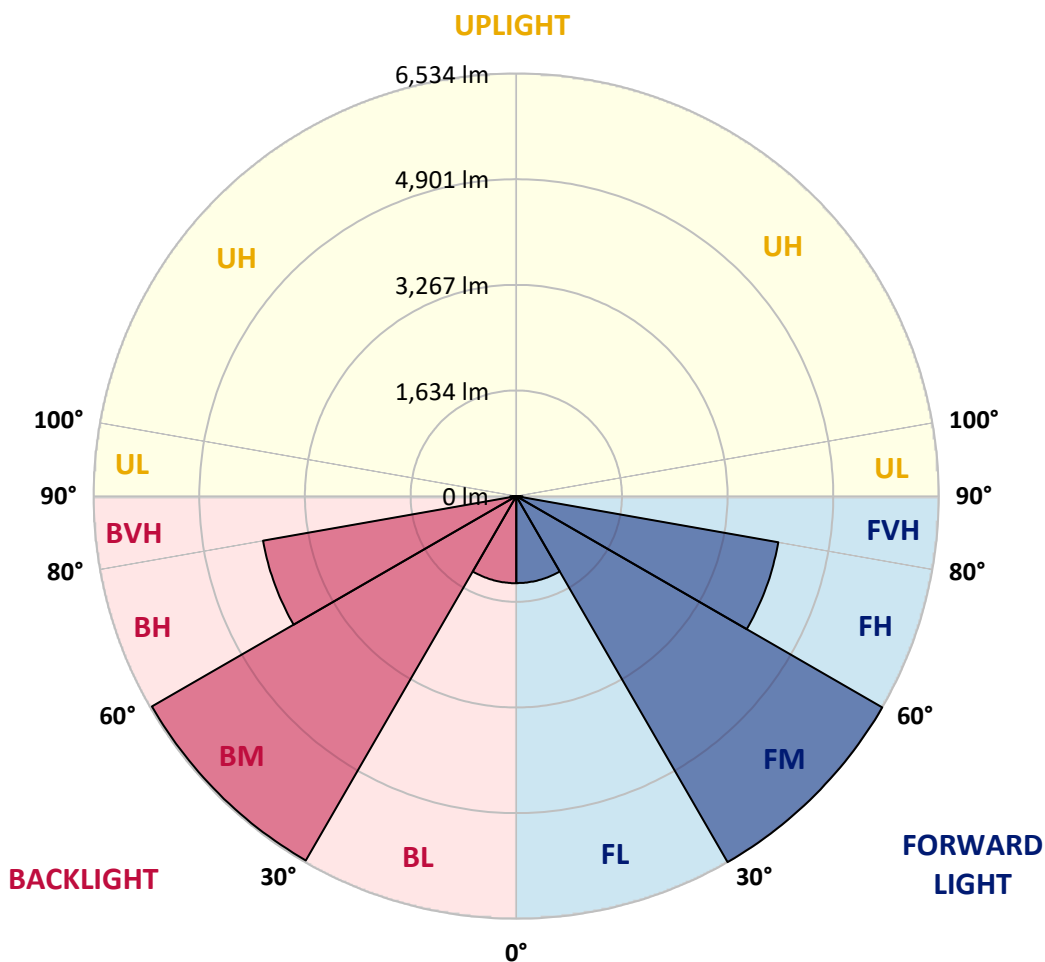
REPORT NUMBER: P481279
 CATALOG NUMBER: IFLD-S-SA3D-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.8	5.6			
FM (30°-60°)	6534.5	27.2			
FH (60°-80°)	4114.5	17.1			G2/5000
FVH (80°-90°)	95.1	0.4			G1/100
BL (0°-30°)	1346.2	5.6	B3/2500		
BM (30°-60°)	6505.2	27.1	B4/8500		
BH (60°-80°)	3975.5	16.6	B4/5000		G4/5000
BVH (80°-90°)	91.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P481279
 CATALOG NUMBER: IFLD-S-SA3D-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2442.8	2442.8	2440.2	2453.1	2466.0	2471.2	2481.6	2484.2	2499.7	2486.7	2512.6
5°	2435.0	2432.4	2453.1	2484.2	2484.2	2517.8	2538.5	2567.0	2574.7	2590.2	2595.4
7.5°	2489.3	2484.2	2473.8	2507.4	2535.9	2587.7	2616.1	2665.3	2683.4	2704.1	2727.4
10°	2523.0	2523.0	2512.6	2572.1	2598.0	2667.9	2730.0	2779.1	2849.0	2872.3	2874.9
12.5°	2528.1	2535.9	2567.0	2644.6	2717.0	2807.6	2854.2	2947.3	3017.2	3061.2	3076.7
15°	2605.8	2590.2	2623.9	2730.0	2836.1	2916.3	2999.1	3066.4	3167.3	3224.2	3260.5
17.5°	2675.6	2660.1	2722.2	2849.0	2957.7	3081.9	3154.4	3226.8	3299.3	3351.0	3353.6
20°	2786.9	2799.8	2854.2	2991.3	3133.7	3242.3	3325.1	3338.1	3374.3	3449.4	3436.4
22.5°	2924.1	2913.7	3027.6	3177.6	3332.9	3423.5	3470.1	3436.4	3418.3	3498.5	3516.6
25°	3061.2	3092.3	3195.8	3335.5	3521.8	3643.4	3656.4	3563.2	3495.9	3524.4	3516.6
27.5°	3270.8	3276.0	3384.7	3550.3	3739.2	3845.3	3837.5	3705.5	3576.1	3578.7	3583.9
30°	3539.9	3514.0	3633.1	3783.2	3969.5	4065.2	4078.2	3889.3	3715.9	3664.1	3677.1
32.5°	3798.7	3829.7	3933.2	4104.0	4241.2	4295.5	4267.1	4098.9	3873.7	3803.9	3811.6
35°	4129.9	4124.7	4267.1	4412.0	4515.5	4525.8	4502.5	4256.7	4044.5	3953.9	3917.7
37.5°	4484.4	4531.0	4624.2	4743.2	4851.9	4857.0	4730.2	4533.6	4272.2	4122.1	4166.1
40°	4880.3	4932.1	4999.4	5172.7	5253.0	5170.1	5040.8	4774.2	4502.5	4370.6	4391.3
42.5°	5229.7	5253.0	5390.1	5594.5	5633.3	5597.1	5405.6	5082.2	4766.5	4621.6	4631.9
45°	5550.5	5581.6	5760.1	5943.9	6034.4	5972.3	5749.8	5441.9	5074.4	4950.2	4901.0
47.5°	5845.5	5907.6	6081.0	6269.9	6409.6	6414.8	6140.5	5767.9	5379.7	5216.7	5214.1
50°	6044.8	6135.3	6306.1	6520.9	6725.3	6805.5	6531.3	6130.2	5713.6	5540.2	5522.1
52.5°	6153.5	6246.6	6417.4	6751.2	6978.9	7103.1	6973.7	6469.2	6104.3	5923.2	5894.7
55°	6021.5	6083.6	6363.1	6831.4	7183.3	7387.8	7302.4	6937.5	6492.4	6344.9	6370.8
57.5°	5460.0	5589.3	5933.5	6518.3	7178.2	7680.2	7672.4	7380.0	6940.1	6800.4	6805.5
60°	4494.8	4603.4	5027.8	5845.5	6888.4	7799.2	8073.5	7809.6	7442.1	7279.1	7273.9
62.5°	3172.5	3309.6	3801.3	4694.0	6034.4	7633.6	8534.1	8350.4	7933.8	7814.7	7858.7
65°	1775.1	1857.9	2313.4	3120.7	4598.3	6722.7	8616.9	8911.9	8433.2	8252.1	8259.8
67.5°	949.7	980.7	1192.9	1638.0	2812.8	5183.1	7781.1	9235.4	8974.0	8660.9	8611.7
70°	652.1	662.4	716.8	838.4	1330.1	3100.0	5868.8	8658.3	9380.3	8953.3	9036.1
72.5°	551.2	546.0	558.9	571.9	696.1	1387.0	3444.2	6663.2	8855.0	8694.5	8663.5
75°	478.7	476.1	481.3	468.4	483.9	610.7	1524.1	4153.2	6482.1	7235.1	7351.5
77.5°	395.9	398.5	401.1	388.1	383.0	403.7	613.3	1824.3	3190.6	3521.8	3798.7
80°	300.2	305.3	326.0	313.1	292.4	295.0	362.3	610.7	916.0	830.6	856.5
82.5°	204.4	207.0	251.0	235.5	220.0	199.2	232.9	315.7	357.1	271.7	238.1
85°	144.9	142.3	163.0	150.1	139.7	100.9	139.7	178.5	214.8	134.6	121.6
87.5°	33.6	33.6	67.3	54.3	51.8	41.4	54.3	69.9	93.2	59.5	54.3
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: P481279

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2504.9	2481.6	2481.6	2476.4	2455.7	2450.5	2432.4	2437.6	2424.6	2411.7
5°	2592.8	2561.8	2561.8	2517.8	2476.4	2471.2	2450.5	2450.5	2429.8	2435.0
7.5°	2714.5	2686.0	2639.4	2600.6	2543.7	2520.4	2481.6	2476.4	2471.2	2460.9
10°	2859.4	2823.1	2776.6	2696.3	2649.8	2605.8	2567.0	2512.6	2499.7	2502.3
12.5°	3056.0	2999.1	2898.2	2828.3	2768.8	2711.9	2654.9	2574.7	2556.6	2564.4
15°	3195.8	3123.3	3022.4	2996.5	2916.3	2846.4	2753.3	2662.7	2631.7	2623.9
17.5°	3309.6	3250.1	3190.6	3151.8	3087.1	3001.7	2872.3	2768.8	2698.9	2691.2
20°	3402.8	3325.1	3312.2	3335.5	3255.3	3198.3	3040.5	2913.7	2820.6	2781.7
22.5°	3459.7	3410.5	3446.8	3467.5	3462.3	3366.5	3203.5	3056.0	2939.6	2903.4
25°	3521.8	3464.9	3594.3	3664.1	3682.2	3524.4	3397.6	3203.5	3089.7	3066.4
27.5°	3552.9	3573.6	3723.6	3871.1	3858.2	3736.6	3565.8	3392.4	3301.9	3260.5
30°	3643.4	3677.1	3904.8	4070.4	4073.0	3953.9	3824.6	3627.9	3527.0	3508.9
32.5°	3806.5	3847.9	4091.1	4267.1	4298.1	4207.5	4078.2	3956.5	3853.0	3811.6
35°	3930.7	4036.8	4311.0	4471.5	4554.3	4499.9	4427.5	4300.7	4192.0	4155.8
37.5°	4109.2	4256.7	4520.6	4738.0	4831.2	4826.0	4771.6	4634.5	4543.9	4512.9
40°	4365.4	4512.9	4753.5	5040.8	5214.1	5206.4	5175.3	5069.2	4934.7	4919.1
42.5°	4637.1	4758.7	5071.8	5400.4	5648.9	5623.0	5540.2	5416.0	5322.8	5302.1
45°	4901.0	5089.9	5379.7	5801.5	5987.8	6052.5	5954.2	5742.0	5635.9	5623.0
47.5°	5232.3	5382.3	5744.6	6122.4	6399.3	6409.6	6241.4	6044.8	5850.7	5892.1
50°	5527.2	5726.5	6093.9	6508.0	6839.2	6720.2	6505.4	6259.6	6119.8	6065.5
52.5°	5842.9	6086.2	6513.1	6934.9	7118.7	6999.6	6650.3	6376.0	6163.8	6140.5
55°	6303.5	6430.3	6989.3	7312.7	7372.2	7121.2	6606.3	6218.2	5943.9	5876.6
57.5°	6771.9	6919.4	7408.5	7687.9	7625.8	7054.0	6321.7	5721.3	5361.6	5265.9
60°	7245.5	7426.6	7838.0	8094.2	7773.3	6590.8	5516.9	4743.2	4324.0	4238.6
62.5°	7773.3	8008.8	8376.3	8466.8	7336.0	5674.7	4378.3	3423.5	2999.1	2856.8
65°	8241.7	8482.4	8935.2	8389.2	6407.0	4233.4	2830.9	1956.3	1643.2	1529.3
67.5°	8627.3	8899.0	9121.5	7424.0	4691.4	2479.0	1475.0	1029.9	913.4	872.0
70°	8932.6	9385.4	8345.2	5457.4	2680.8	1208.4	797.0	678.0	662.4	652.1
72.5°	8666.1	8606.6	6231.1	3149.2	1174.8	665.0	577.0	558.9	556.3	558.9
75°	7087.6	6321.7	3726.2	1368.9	590.0	481.3	478.7	471.0	483.9	483.9
77.5°	3439.0	3006.9	1557.8	587.4	388.1	377.8	390.7	390.7	390.7	390.7
80°	797.0	882.4	556.3	357.1	282.1	282.1	310.5	313.1	300.2	295.0
82.5°	271.7	362.3	305.3	225.1	186.3	209.6	235.5	240.7	199.2	201.8
85°	134.6	212.2	165.6	129.4	95.7	129.4	152.7	160.4	137.1	132.0
87.5°	62.1	93.2	62.1	44.0	33.6	46.6	44.0	36.2	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)