

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: P478718

Luminaire Tested: **IFLD-S-SA6B-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478718
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

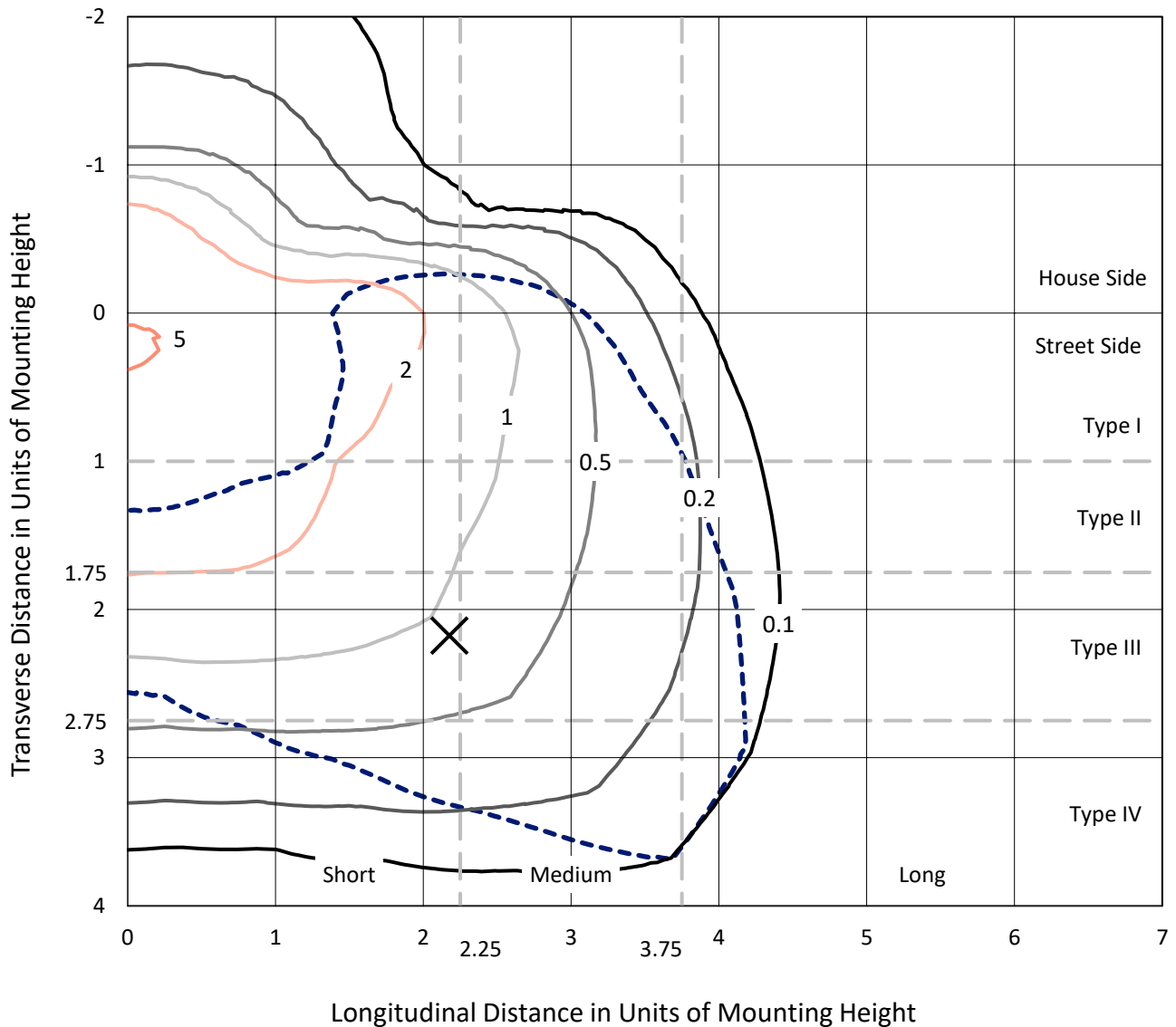
Lumens per Lamp: N/A
Luminaire Lumens: 26809.4 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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: P478718
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

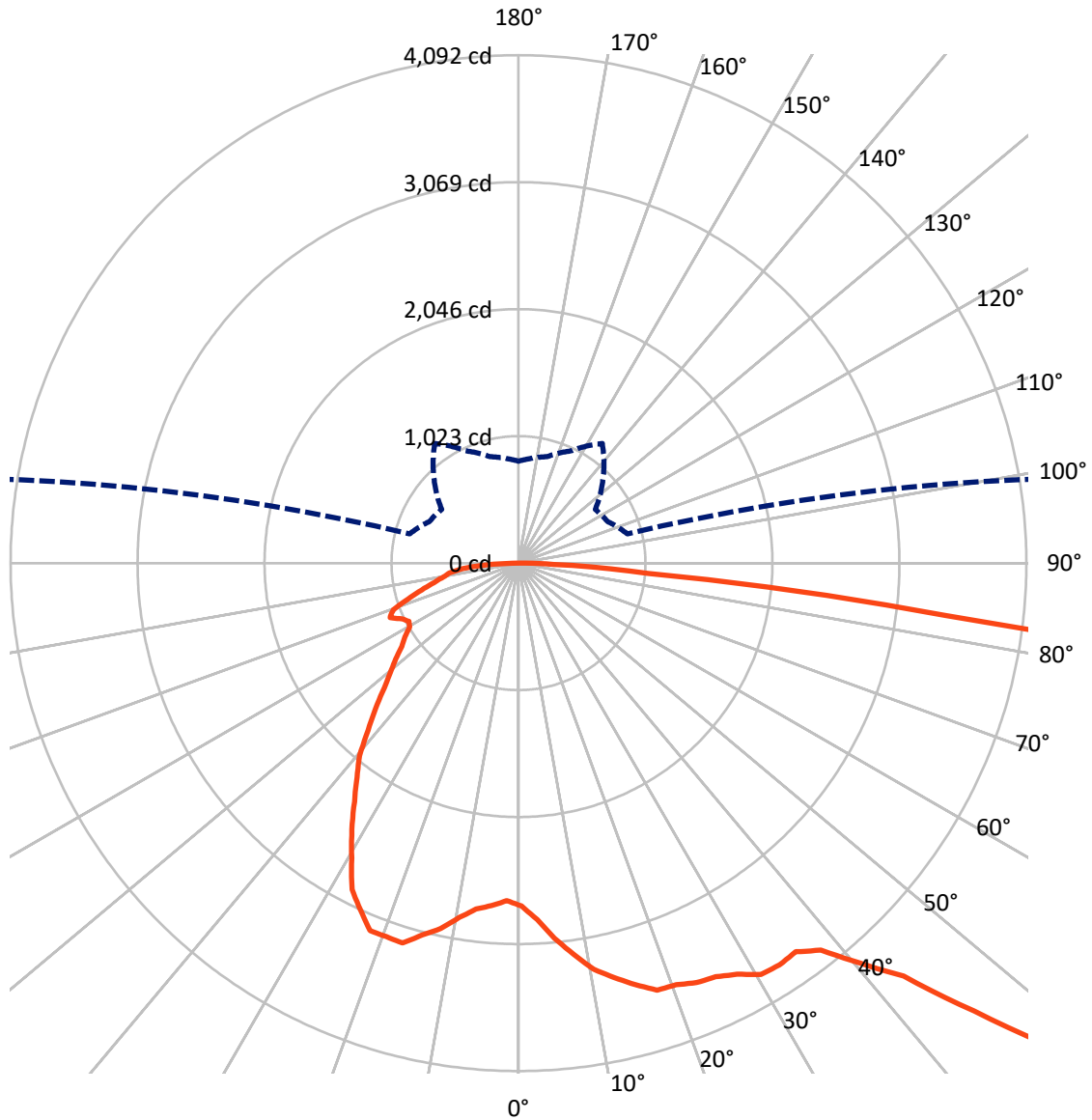
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P478718
CATALOG NUMBER: IFLD-S-SA6B-830-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478718
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5967.9	0.0	5967.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20841.5	0.0	20841.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	26809.4	0.0	26809.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.5	1.1
10°-20°	939.9	3.5
20°-30°	1587.3	5.9
30°-40°	2196.6	8.2
40°-50°	3142.0	11.7
50°-60°	5067.7	18.9
60°-70°	7474.1	27.9
70°-80°	5427.5	20.2
80°-90°	691.9	2.6
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°	26809.4	100.0
0°-180°	26809.4	100.0

Coefficient of Utilization



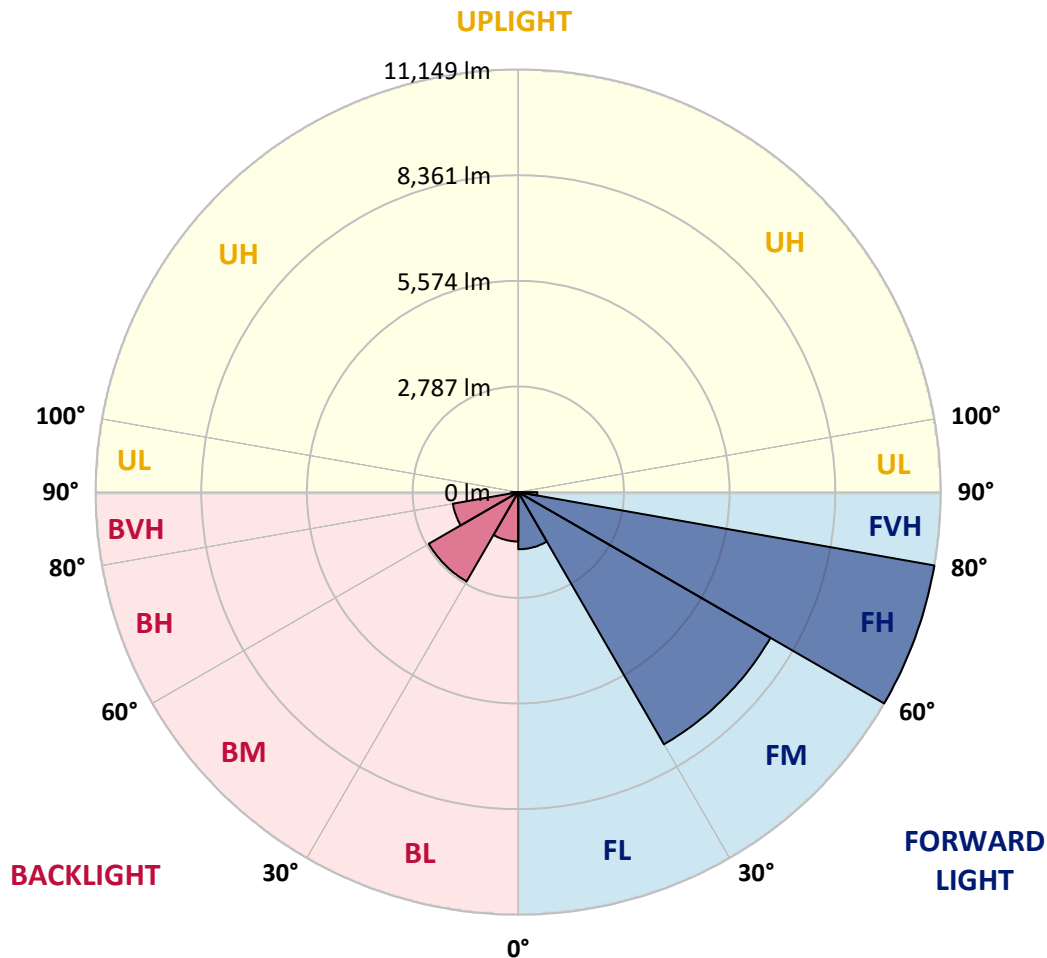
REPORT NUMBER: P478718
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.7	5.6			
FM (30°-60°)	7682.6	28.7			
FH (60°-80°)	11148.6	41.6			G4/12000
FVH (80°-90°)	503.6	1.9			G4/750
BL (0°-30°)	1303.1	4.9	B3/2500		
BM (30°-60°)	2723.6	10.2	B3/5000		
BH (60°-80°)	1753.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	188.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P478718

CATALOG NUMBER: IFLD-S-SA6B-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9
2.5°	2908.3	2925.7	2908.3	2905.4	2876.5	2856.3	2873.6	2847.6	2818.7	2807.1	2781.1
5°	3174.3	3177.2	3145.4	3148.3	3087.6	3024.0	3035.5	2957.5	2873.6	2841.8	2789.8
7.5°	3446.0	3414.2	3368.0	3353.5	3258.1	3188.7	3180.1	3110.7	2980.6	2908.3	2836.0
10°	3622.4	3634.0	3558.8	3495.2	3414.2	3330.4	3327.5	3197.4	3122.3	3015.3	2922.8
12.5°	3778.5	3781.4	3717.8	3616.6	3515.4	3411.4	3425.8	3368.0	3240.8	3139.6	3047.1
15°	3899.9	3882.6	3813.2	3720.7	3613.7	3532.8	3524.1	3475.0	3368.0	3284.2	3130.9
17.5°	3934.6	3925.9	3856.6	3758.3	3654.2	3593.5	3616.6	3535.7	3492.3	3417.1	3269.7
20°	3868.1	3847.9	3836.3	3726.5	3651.3	3645.5	3625.3	3642.6	3570.4	3501.0	3394.0
22.5°	3746.7	3738.0	3732.3	3645.5	3610.8	3636.8	3671.5	3697.6	3686.0	3619.5	3498.1
25°	3622.4	3662.9	3625.3	3584.8	3634.0	3700.5	3691.8	3775.6	3775.6	3755.4	3654.2
27.5°	3709.1	3683.1	3654.2	3634.0	3651.3	3755.4	3749.6	3850.8	3888.4	3850.8	3735.1
30°	3925.9	3899.9	3816.1	3726.5	3703.3	3816.1	3845.0	3934.6	3952.0	3859.5	3761.2
32.5°	4333.6	4319.1	4186.1	3923.1	3781.4	3845.0	3859.5	3960.6	3946.2	3888.4	3847.9
35°	4937.8	4888.6	4703.6	4258.4	3946.2	3882.6	3845.0	3925.9	3980.9	3952.0	3914.4
37.5°	5599.8	5544.9	5316.5	4752.8	4244.0	3983.8	3954.9	4021.3	4085.0	4070.5	3992.4
40°	6232.9	6232.9	6027.7	5371.4	4686.3	4229.5	4235.3	4160.1	4217.9	4191.9	4206.4
42.5°	6857.4	6834.3	6750.4	6097.1	5160.4	4640.0	4547.5	4359.6	4463.7	4455.0	4475.2
45°	7490.5	7473.2	7450.0	6773.6	5839.8	5195.1	5145.9	4807.7	4903.1	4862.6	4949.4
47.5°	7996.4	8016.7	8016.7	7528.1	6565.4	5935.2	5862.9	5328.1	5510.2	5530.4	5550.7
50°	8427.2	8435.9	8427.2	8248.0	7374.9	6782.2	6634.8	6091.3	6273.4	6432.4	6617.4
52.5°	9022.7	9034.3	8993.8	8924.4	8473.5	7672.7	7507.9	6903.7	7276.6	7444.3	7776.7
55°	9757.0	9670.3	9595.2	9647.2	9528.7	8652.7	8482.1	7742.0	8302.9	8525.5	9190.4
57.5°	9892.9	9968.1	10158.9	10572.3	10742.9	9606.7	9508.4	8771.2	9462.2	9655.9	10766.0
60°	10372.8	10248.5	10716.9	11613.1	11803.9	10849.8	10748.7	9898.7	10615.7	10818.0	12220.2
62.5°	10687.9	10682.2	11376.0	12439.9	12873.5	12139.2	11934.0	11364.4	11861.7	12058.3	13804.4
65°	10595.4	10679.3	11910.8	12925.6	13766.8	13604.9	13486.4	12624.9	13281.2	13263.8	14836.5
67.5°	9751.3	9988.3	11572.6	13275.4	15096.7	15391.6	15354.0	14397.1	14434.7	14067.5	15296.2
70°	8580.4	8499.5	10141.5	12911.1	15761.6	17510.7	17502.0	15715.4	15472.5	14243.8	13977.9
72°	6591.4	6501.8	7851.9	11086.9	15411.8	18357.7	18617.9	16628.9	15460.9	13512.4	11546.6
72.5°	5984.3	5906.3	7250.6	10436.4	15024.4	18577.4	18456.0	16663.6	15339.5	13168.4	10786.2
75°	2755.1	2665.5	3622.4	6389.1	11720.0	16461.2	16874.6	15593.9	13396.8	10482.7	6461.3
77.5°	821.0	795.0	1165.1	2578.8	6811.1	12127.7	12286.7	11766.3	9352.3	5741.5	2396.6
80°	456.8	459.7	601.3	965.6	2995.1	7010.6	7583.0	7267.9	4588.0	1896.5	797.9
82.5°	254.4	268.9	375.8	572.4	1376.1	3217.7	3463.4	3339.1	1659.4	890.4	436.5
85°	133.0	138.8	196.6	306.4	780.6	1017.6	1046.5	1121.7	861.5	607.1	234.2
87.5°	52.0	52.0	72.3	127.2	289.1	315.1	283.3	344.0	494.4	393.2	115.6
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: P478718
 CATALOG NUMBER: IFLD-S-SA6B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9
2.5°	2804.2	2781.1	2778.2	2740.6	2752.2	2720.4	2723.3	2717.5	2720.4	2714.6	2700.2
5°	2789.8	2772.4	2723.3	2755.1	2726.2	2766.7	2798.5	2786.9	2795.6	2792.7	2795.6
7.5°	2810.0	2786.9	2781.1	2763.8	2789.8	2807.1	2833.2	2905.4	2899.7	2908.3	2925.7
10°	2870.7	2844.7	2827.4	2853.4	2838.9	2893.9	2922.8	2960.4	3026.9	3029.7	2995.1
12.5°	2989.3	2971.9	2937.2	2943.0	2992.2	3009.5	3026.9	3050.0	3093.3	3084.7	3116.5
15°	3125.1	3087.6	3067.3	3061.5	3073.1	3093.3	3090.5	3113.6	3136.7	3156.9	3148.3
17.5°	3223.4	3174.3	3180.1	3209.0	3206.1	3200.3	3162.7	3151.2	3162.7	3174.3	3168.5
20°	3324.6	3330.4	3287.0	3261.0	3249.5	3191.6	3162.7	3128.0	3093.3	3110.7	3136.7
22.5°	3451.8	3425.8	3362.2	3284.2	3226.3	3191.6	3102.0	3041.3	3041.3	3058.7	3050.0
25°	3596.4	3541.4	3431.6	3289.9	3217.7	3070.2	3006.6	2997.9	2974.8	3000.8	3012.4
27.5°	3709.1	3660.0	3509.6	3269.7	3070.2	2951.7	2914.1	2902.5	2940.1	2943.0	2989.3
30°	3755.4	3740.9	3521.2	3217.7	2919.9	2729.1	2706.0	2758.0	2798.5	2859.2	2862.1
32.5°	3816.1	3821.9	3538.6	3096.2	2723.3	2532.5	2497.8	2561.4	2677.0	2726.2	2763.8
35°	3917.3	3946.2	3524.1	2945.9	2515.2	2333.0	2327.2	2344.6	2457.3	2544.1	2593.2
37.5°	4093.6	4087.8	3521.2	2766.7	2350.4	2159.6	2113.3	2119.1	2194.3	2266.5	2257.9
40°	4330.7	4307.6	3512.5	2532.5	2136.4	2012.1	1934.1	1905.2	1899.4	1879.1	1884.9
42.5°	4654.5	4608.2	3509.6	2295.4	1942.7	1809.8	1754.8	1679.7	1624.7	1520.7	1526.4
45°	5105.5	5024.5	3434.5	2072.8	1751.9	1642.1	1558.2	1503.3	1384.8	1254.7	1254.7
47.5°	5802.2	5539.1	3437.4	1827.1	1566.9	1477.3	1419.5	1324.1	1196.9	1092.8	1081.2
50°	6828.5	6227.2	3339.1	1633.4	1416.6	1355.9	1295.2	1185.3	1063.9	991.6	1000.3
52.5°	8152.6	7253.5	3336.2	1459.9	1298.0	1254.7	1188.2	1089.9	1000.3	954.0	936.7
55°	9731.0	8612.2	3440.3	1318.3	1176.6	1153.5	1124.6	1043.6	956.9	916.4	913.5
57.5°	11347.1	9939.2	3607.9	1217.1	1072.6	1089.9	1069.7	1006.1	936.7	890.4	884.6
60°	12783.9	10991.5	3269.7	1095.7	980.0	1017.6	1046.5	991.6	954.0	951.1	930.9
62.5°	13868.0	11442.5	2486.2	1003.2	930.9	1000.3	1078.3	1113.0	1095.7	1118.8	1121.7
65°	14264.1	11170.7	1711.5	954.0	893.3	1040.8	1214.2	1202.6	1101.5	1058.1	1081.2
67.5°	13709.0	10069.3	1269.1	896.2	867.3	1124.6	1292.3	1147.7	994.5	988.7	971.4
70°	11789.4	8534.2	1035.0	835.5	823.9	1078.3	1257.6	1063.9	936.7	899.1	881.7
72°	9392.8	6646.4	907.8	792.1	754.5	962.7	1176.6	997.4	887.5	841.3	821.0
72.5°	8574.6	6160.7	890.4	771.9	740.1	936.7	1136.2	977.2	876.0	835.5	803.7
75°	4703.6	3154.1	783.5	708.3	624.5	809.5	1052.3	916.4	826.8	769.0	763.2
77.5°	1749.0	1222.9	676.5	627.3	540.6	699.6	956.9	870.2	751.7	679.4	664.9
80°	670.7	644.7	552.2	529.0	453.9	612.9	881.7	780.6	638.9	566.6	543.5
82.5°	407.6	375.8	419.2	413.4	346.9	558.0	829.7	731.4	566.6	459.7	445.2
85°	222.6	222.6	292.0	280.4	242.8	445.2	627.3	485.7	358.5	294.9	300.7
87.5°	98.3	115.6	156.1	147.4	133.0	251.5	306.4	257.3	179.2	121.4	130.1
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)