

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: P483678

Luminaire Tested: **IFLD-M-SA4D-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483678
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

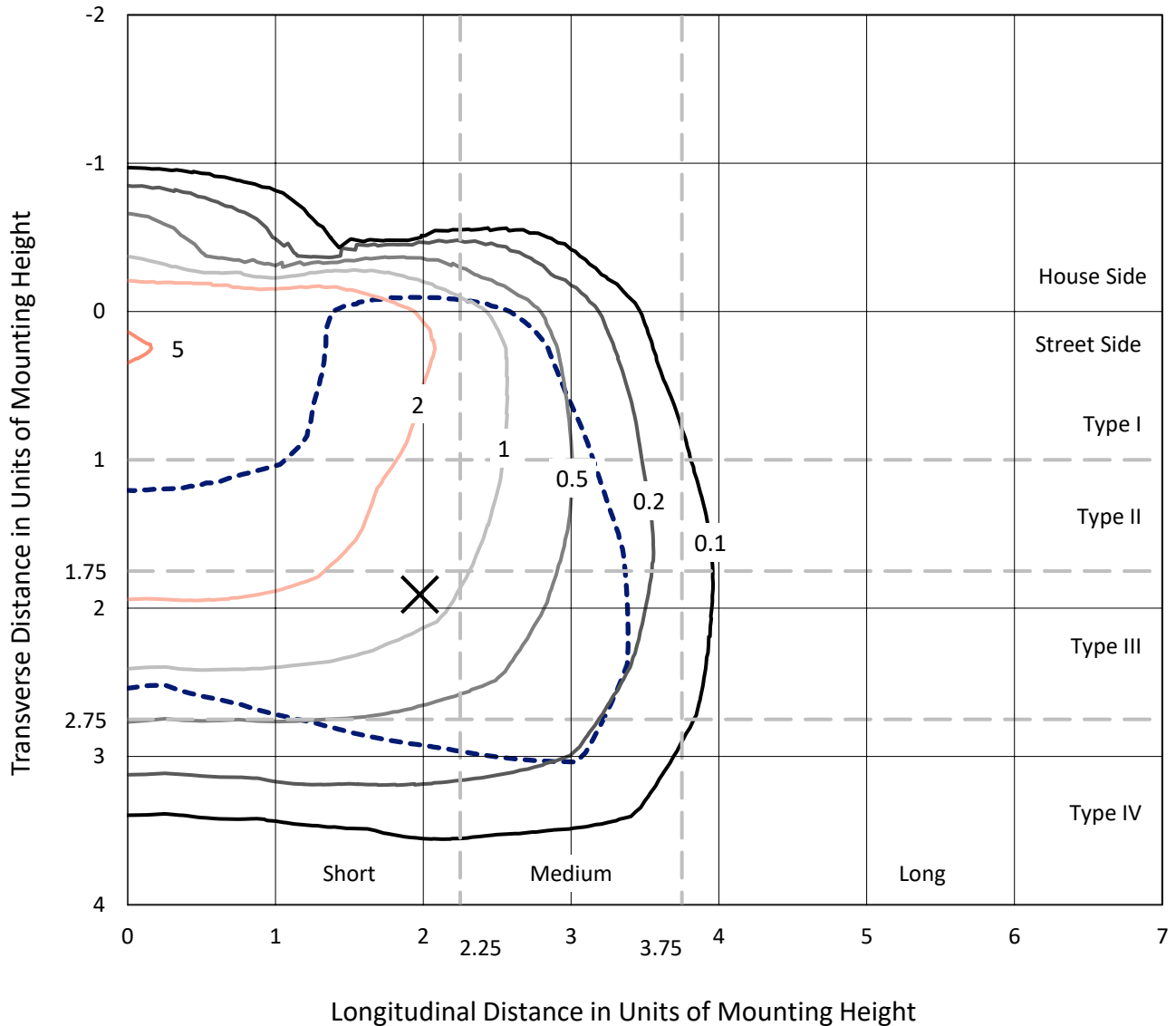
Lumens per Lamp: N/A
Luminaire Lumens: 23611 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

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Iso-Footcandle Lines of Horizontal Illumination

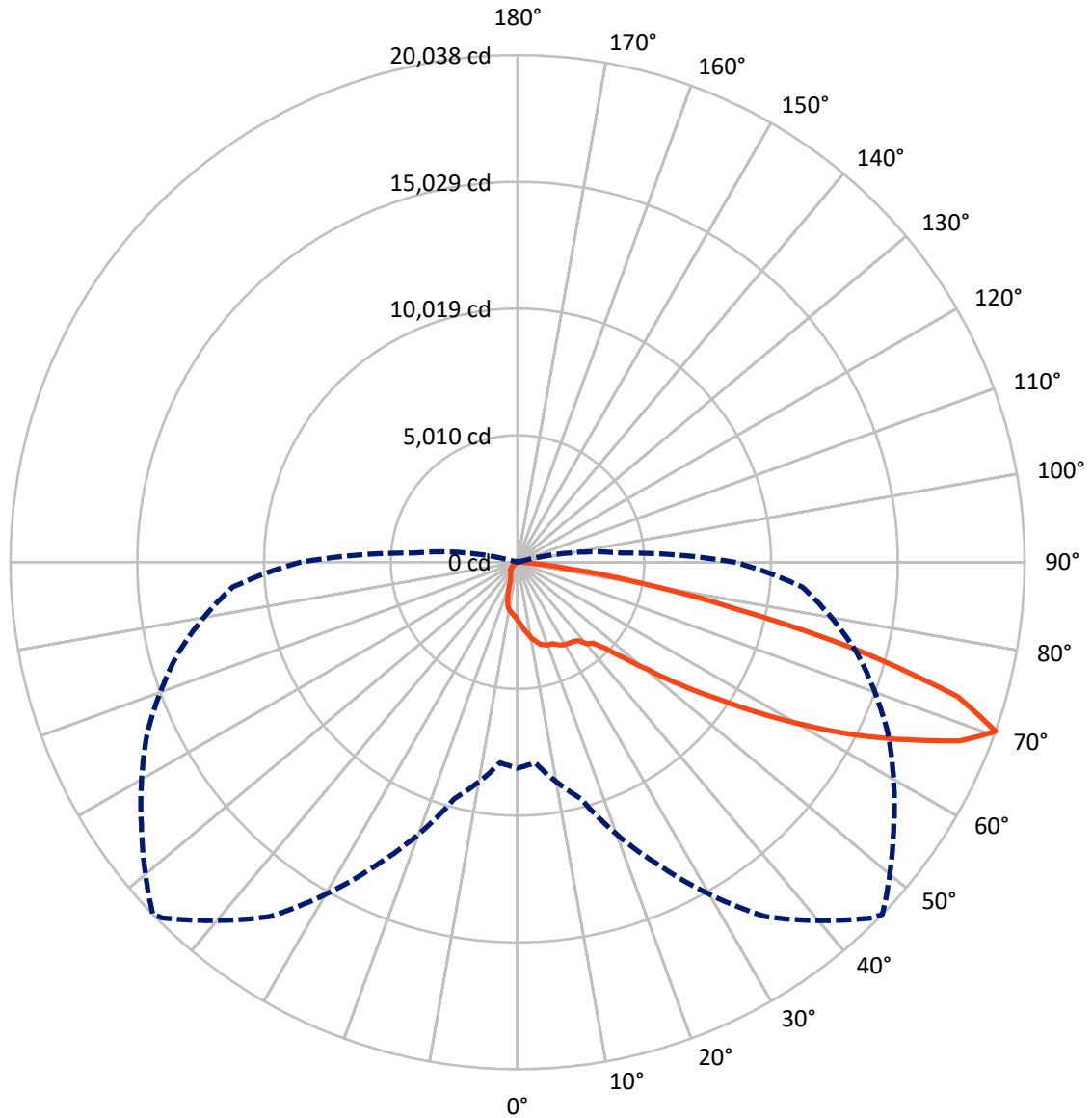
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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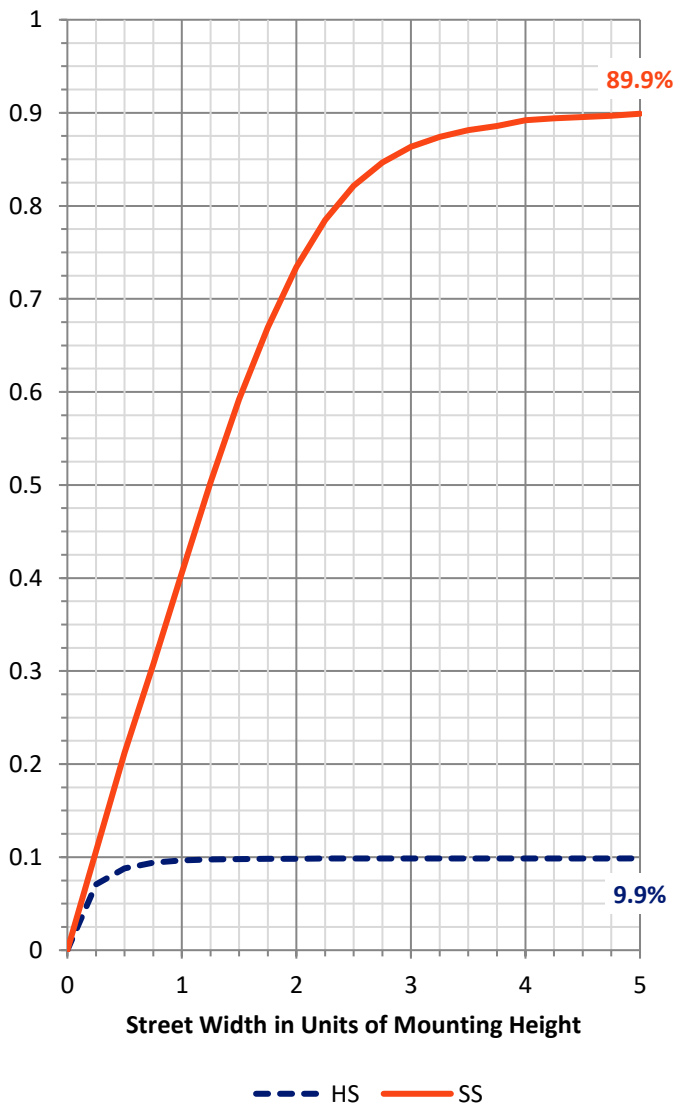
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.4	0.0	2349.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	21261.6	0.0	21261.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	23611.0	0.0	23611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.0
10°-20°	698.0	3.0
20°-30°	1118.0	4.7
30°-40°	1595.7	6.8
40°-50°	2755.4	11.7
50°-60°	5275.5	22.3
60°-70°	7812.2	33.1
70°-80°	3869.3	16.4
80°-90°	255.7	1.1
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°	23611.0	100.0
0°-180°	23611.0	100.0



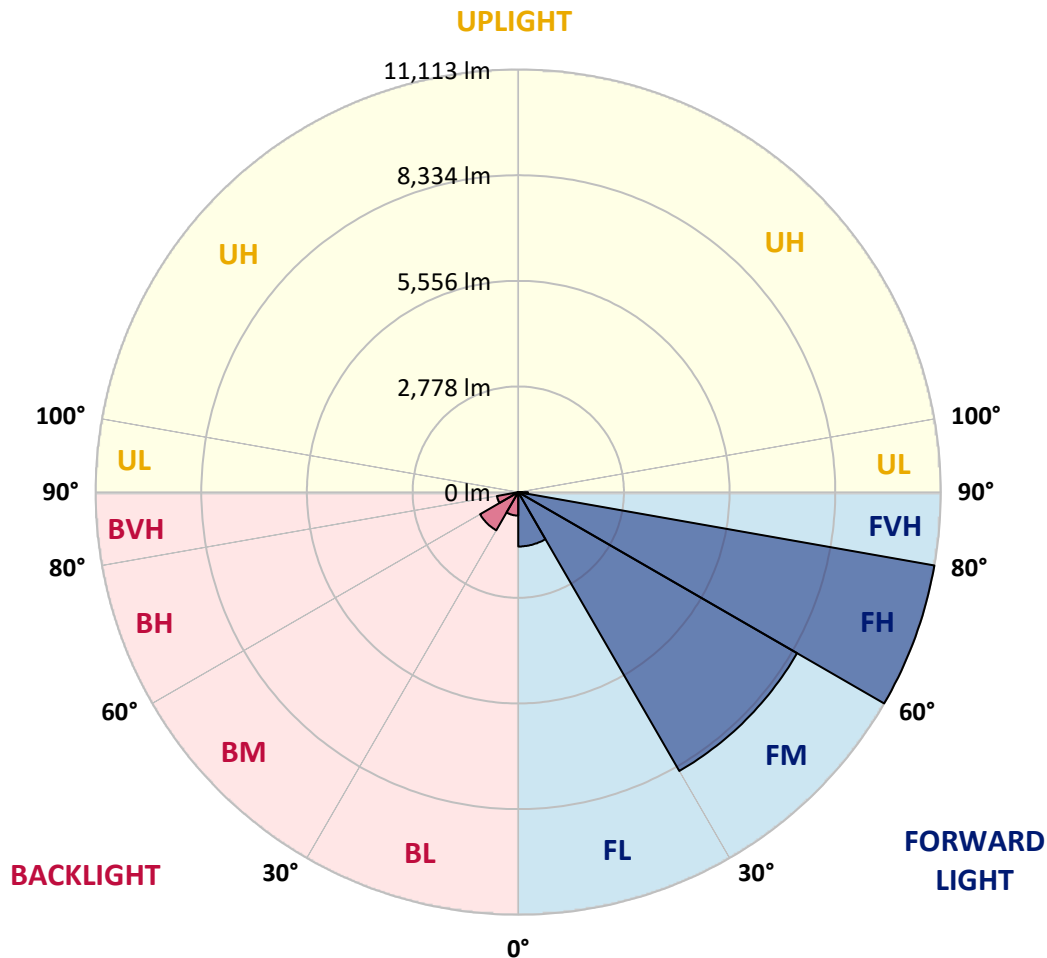
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1429.8	6.1			
FM (30°-60°)	8466.8	35.9			
FH (60°-80°)	11112.5	47.1			G4/12000
FVH (80°-90°)	252.4	1.1			G3/500
BL (0°-30°)	617.2	2.6	B2/1000		
BM (30°-60°)	1159.9	4.9	B2/2500		
BH (60°-80°)	569.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9
2.5°	2586.4	2569.4	2542.2	2532.0	2504.8	2491.2	2470.8	2460.6	2423.2	2385.8	2362.0
5°	2902.4	2861.6	2875.2	2834.5	2746.1	2674.7	2671.3	2593.2	2508.2	2440.2	2348.5
7.5°	3221.9	3187.9	3136.9	3079.2	2980.6	2875.2	2844.7	2769.9	2650.9	2532.0	2409.6
10°	3463.2	3439.4	3395.2	3313.7	3177.7	3058.8	3062.2	2936.4	2810.7	2674.7	2508.2
12.5°	3612.7	3622.9	3558.4	3476.8	3357.8	3208.3	3204.9	3119.9	2977.2	2834.5	2637.3
15°	3762.3	3799.7	3701.1	3605.9	3453.0	3344.2	3364.6	3262.7	3123.3	2960.2	2742.7
17.5°	3786.1	3796.3	3775.9	3636.5	3524.4	3432.6	3436.0	3368.0	3262.7	3086.0	2899.0
20°	3745.3	3738.5	3714.7	3612.7	3538.0	3483.6	3487.0	3470.0	3412.2	3269.5	3014.6
22.5°	3626.3	3626.3	3595.7	3527.8	3493.8	3544.8	3504.0	3568.6	3507.4	3422.4	3211.7
25°	3531.2	3568.6	3551.6	3507.4	3521.0	3588.9	3609.3	3670.5	3660.3	3555.0	3347.6
27.5°	3633.1	3588.9	3599.1	3548.2	3599.1	3701.1	3711.3	3755.5	3752.1	3667.1	3470.0
30°	3701.1	3741.9	3663.7	3551.6	3605.9	3779.3	3772.5	3830.3	3857.4	3755.5	3585.6
32.5°	3918.6	3884.6	3820.1	3670.5	3677.3	3775.9	3806.5	3881.2	3898.2	3837.0	3697.7
35°	4363.8	4312.9	4030.8	3806.5	3772.5	3820.1	3840.4	3986.6	4017.2	3949.2	3816.7
37.5°	5050.4	4934.8	4594.9	4098.7	3945.8	3935.6	3935.6	4129.3	4244.9	4088.5	3993.4
40°	6032.6	5869.4	5502.4	4639.1	4173.5	4214.3	4255.1	4360.4	4346.8	4244.9	4224.5
42.5°	7283.3	7157.5	6759.9	5546.6	4608.5	4404.6	4370.6	4513.4	4727.5	4686.7	4673.1
45°	8326.6	8333.4	8078.5	6790.5	5359.6	4843.0	4866.8	4975.6	5335.8	5305.3	5301.9
47.5°	9087.9	8992.8	8955.4	7990.2	6454.0	5675.7	5641.7	5716.5	6185.5	6379.2	6467.6
50°	9781.2	9716.7	9628.3	9155.9	7769.3	6719.1	6685.1	6691.9	7409.0	7680.9	7898.4
52.5°	10641.1	10722.7	10430.4	10141.5	9472.0	8075.1	8037.8	7905.2	8795.6	9169.5	9427.8
55°	11701.5	11548.5	11218.9	11368.4	11099.9	9539.9	9472.0	9315.6	10376.0	10532.3	10804.2
57.5°	11936.0	11820.4	12160.3	12690.5	12948.8	11259.7	11232.5	10950.4	11704.9	11562.1	12330.2
60°	12520.5	12551.1	13023.5	14077.1	14525.7	13244.4	13111.9	12615.7	12993.0	13020.1	13839.2
62.5°	13122.1	13050.7	14107.7	15120.5	15810.4	15123.9	15079.7	14094.1	14522.3	14175.7	15259.8
65°	12680.3	12789.0	14301.4	15997.3	17475.7	16962.5	16925.2	15518.1	15752.6	15321.0	15837.6
67.5°	11110.1	10889.2	13006.5	15596.3	18332.2	18889.6	18848.8	17071.3	16446.0	15314.2	14637.9
70°	8143.1	7952.8	9679.3	13207.1	17105.3	19875.2	20038.3	18152.1	16163.9	13886.8	11293.6
72.5°	3990.0	3993.4	5424.2	8955.4	13533.3	18114.7	18196.2	16643.1	13886.8	10236.7	6396.2
75°	1179.3	1192.9	2008.6	4391.0	8748.1	13757.6	13849.4	12632.7	9624.9	5288.3	2181.9
77.5°	431.6	431.6	666.1	1648.3	4363.8	8683.5	8676.7	7755.7	4873.6	1791.1	509.8
80°	224.3	234.5	346.7	672.9	1889.6	4523.6	4693.5	3796.3	1852.3	754.5	149.5
82.5°	91.8	102.0	190.3	346.7	907.4	1587.2	1736.7	1488.6	805.5	526.8	68.0
85°	27.2	30.6	91.8	193.7	356.9	397.6	441.8	499.6	506.4	407.8	30.6
87.5°	3.4	3.4	37.4	64.6	78.2	85.0	98.6	98.6	258.3	285.5	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9	2317.9
2.5°	2334.9	2317.9	2290.7	2229.5	2215.9	2171.7	2168.3	2127.5	2141.1	2113.9	2103.7
5°	2317.9	2280.5	2205.7	2158.1	2110.5	2080.0	2059.6	2042.6	2039.2	2025.6	2018.8
7.5°	2348.5	2297.5	2181.9	2107.1	2025.6	1998.4	1954.2	1950.8	1927.0	1903.2	1903.2
10°	2450.4	2358.6	2232.9	2107.1	2001.8	1913.4	1811.5	1736.7	1709.5	1648.3	1655.1
12.5°	2532.0	2450.4	2266.9	2137.7	1978.0	1777.5	1553.2	1379.8	1298.3	1220.1	1250.7
15°	2647.5	2528.6	2331.5	2144.5	1886.2	1539.6	1172.5	978.8	904.0	887.0	883.6
17.5°	2773.3	2647.5	2413.0	2127.5	1699.3	1189.5	863.3	751.1	764.7	785.1	781.7
20°	2912.6	2759.7	2474.2	2069.8	1403.6	863.3	706.9	703.5	723.9	754.5	761.3
22.5°	3058.8	2926.2	2549.0	1896.4	1046.8	693.3	679.7	679.7	693.3	730.7	723.9
25°	3221.9	3045.2	2586.4	1627.9	751.1	638.9	645.7	659.3	666.1	696.7	700.1
27.5°	3347.6	3177.7	2596.6	1305.1	611.8	591.4	608.4	625.3	635.5	659.3	669.5
30°	3463.2	3344.2	2542.2	972.0	560.8	550.6	557.4	581.2	601.6	621.9	621.9
32.5°	3609.3	3439.4	2416.4	689.9	530.2	513.2	509.8	520.0	543.8	567.6	567.6
35°	3758.9	3599.1	2215.9	554.0	503.0	479.2	465.6	455.4	465.6	482.6	496.2
37.5°	3976.4	3840.4	1964.4	509.8	482.6	448.6	421.4	397.6	380.6	377.2	387.4
40°	4285.7	4112.3	1641.5	479.2	458.8	418.0	377.2	336.5	299.1	275.3	278.7
42.5°	4754.7	4513.4	1291.5	462.2	441.8	384.0	326.3	268.5	220.9	197.1	197.1
45°	5424.2	5043.6	948.2	445.2	421.4	343.3	268.5	200.5	152.9	139.3	142.7
47.5°	6433.6	5682.5	679.7	418.0	394.2	299.1	210.7	142.7	112.2	105.4	108.8
50°	7752.3	6440.4	530.2	387.4	360.3	251.5	156.3	105.4	88.4	85.0	88.4
52.5°	9135.5	7205.1	465.6	360.3	309.3	200.5	115.6	85.0	74.8	71.4	74.8
55°	10318.2	7697.9	404.4	319.5	248.1	149.5	91.8	74.8	64.6	54.4	54.4
57.5°	11514.5	7946.0	319.5	265.1	183.5	112.2	78.2	64.6	54.4	44.2	40.8
60°	12486.6	8122.7	227.7	197.1	129.1	88.4	68.0	57.8	44.2	34.0	30.6
62.5°	13125.5	7616.3	166.5	149.5	95.2	74.8	57.8	47.6	34.0	23.8	23.8
65°	12809.4	6916.2	129.1	105.4	71.4	57.8	47.6	34.0	23.8	13.6	10.2
67.5°	11494.2	5634.9	105.4	78.2	54.4	44.2	37.4	27.2	13.6	3.4	3.4
70°	8574.7	4129.3	85.0	57.8	44.2	34.0	27.2	17.0	6.8	3.4	0.0
72.5°	4690.1	2260.1	68.0	47.6	34.0	27.2	20.4	13.6	6.8	0.0	0.0
75°	1549.8	601.6	51.0	34.0	20.4	17.0	13.6	10.2	3.4	0.0	0.0
77.5°	373.8	156.3	40.8	30.6	17.0	10.2	6.8	3.4	3.4	0.0	0.0
80°	115.6	64.6	30.6	20.4	13.6	10.2	3.4	0.0	0.0	0.0	0.0
82.5°	47.6	30.6	13.6	13.6	10.2	3.4	0.0	0.0	0.0	0.0	0.0
85°	23.8	17.0	10.2	6.8	6.8	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	6.8	3.4	3.4	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)