

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: P639179

Luminaire Tested: **USSL-M-PA6A-740-U-T2U-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6A-740-U-T2U-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28951 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

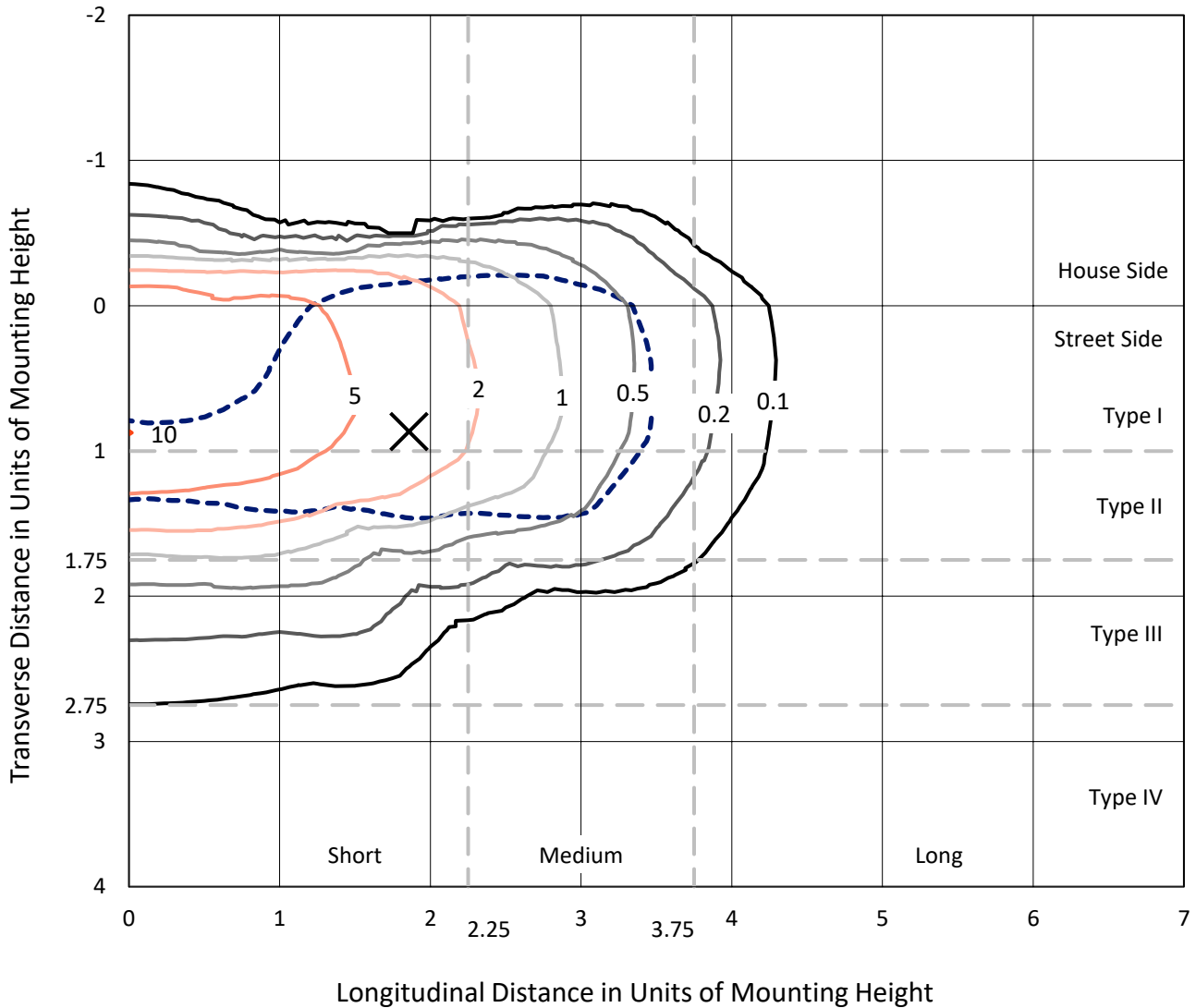
Input Watts (W): 273.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

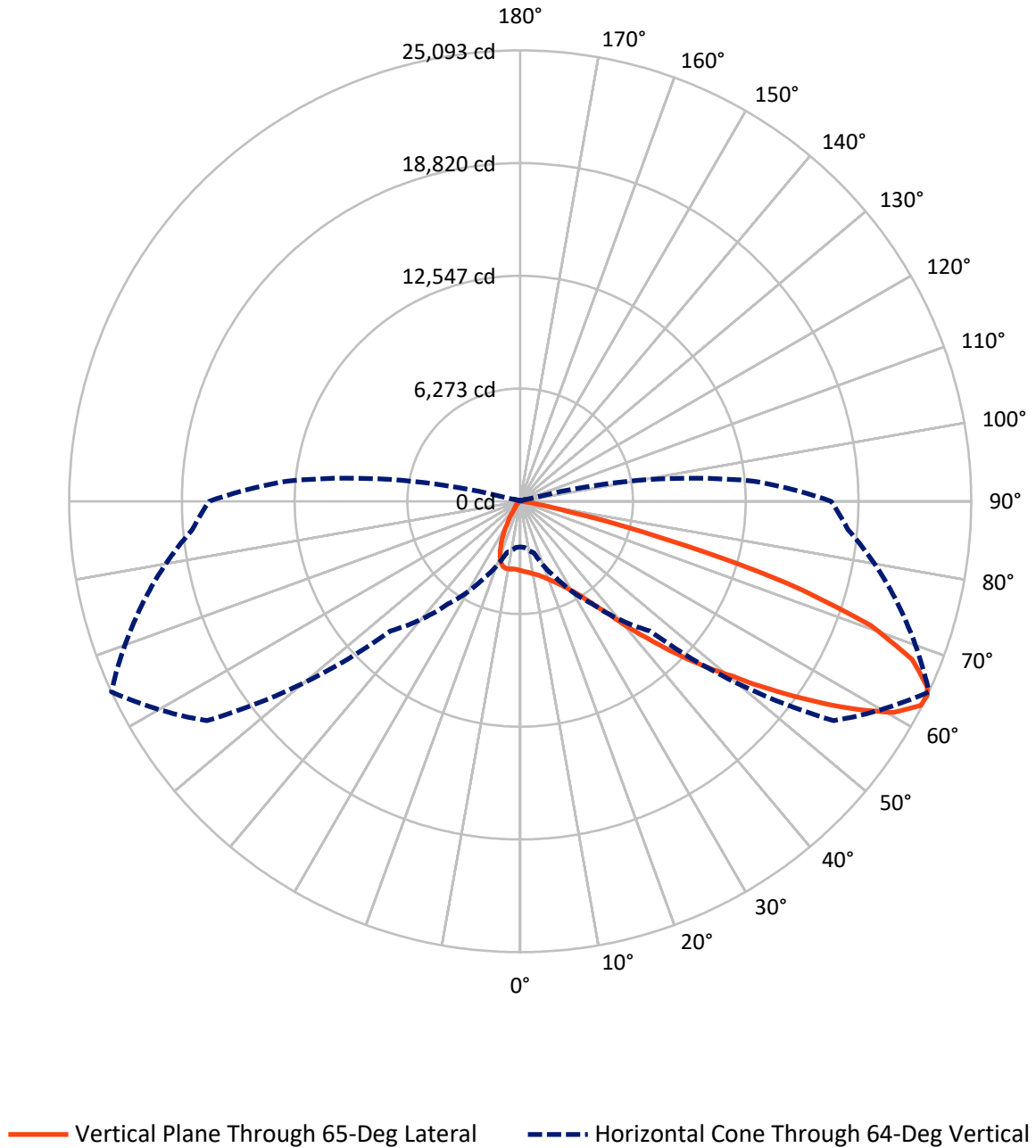
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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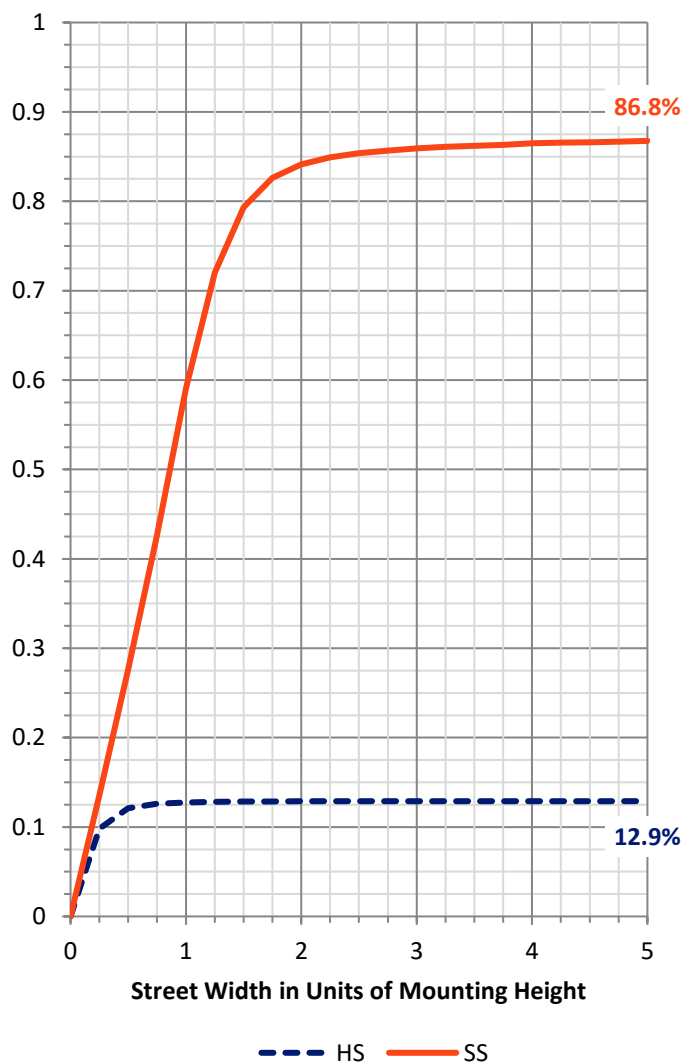
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3774.9	0.0	3774.9
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	25176.1	0.0	25176.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	28951.0	0.0	28951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	1.3
10°-20°	967.9	3.3
20°-30°	1555.5	5.4
30°-40°	2835.0	9.8
40°-50°	5777.0	20.0
50°-60°	7968.6	27.5
60°-70°	6702.3	23.2
70°-80°	2625.2	9.1
80°-90°	155.7	0.5
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°	28951.0	100.0
0°-180°	28951.0	100.0

Coefficient of Utilization

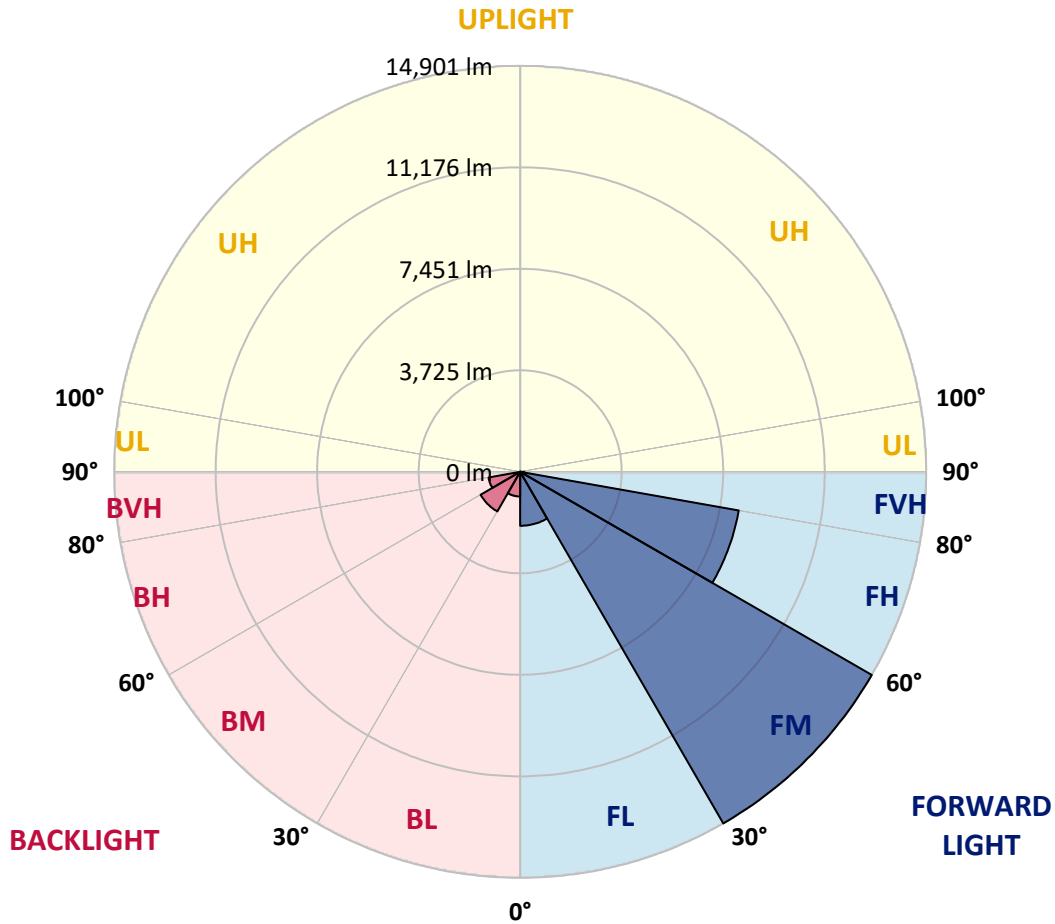


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.9	6.8			
FM (30°-60°)	14901.2	51.5			
FH (60°-80°)	8146.6	28.1			G4/12000
FVH (80°-90°)	148.4	0.5			G2/225
BL (0°-30°)	907.3	3.1	B2/1000		
BM (30°-60°)	1679.4	5.8	B2/2500		
BH (60°-80°)	1180.9	4.1	B3/2500		G3/2500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0
2.5°	4007.0	3971.0	3967.0	3962.0	3947.0	3937.0	3920.0	3905.0	3883.0	3863.0	3850.0
5°	4064.0	4024.0	4023.0	4024.0	4011.0	3999.0	3980.0	3955.0	3920.0	3884.0	3861.0
7.5°	4072.0	4035.0	4038.0	4042.0	4040.0	4040.0	4036.0	4020.0	3988.0	3939.0	3911.0
10°	4109.0	4076.0	4074.0	4072.0	4069.0	4078.0	4100.0	4107.0	4077.0	4027.0	3989.0
12.5°	4196.0	4160.0	4158.0	4151.0	4144.0	4151.0	4183.0	4202.0	4183.0	4123.0	4079.0
15°	4314.0	4276.0	4272.0	4265.0	4260.0	4273.0	4299.0	4319.0	4297.0	4230.0	4175.0
17.5°	4449.0	4402.0	4413.0	4407.0	4408.0	4417.0	4448.0	4468.0	4440.0	4360.0	4291.0
20°	4598.0	4549.0	4570.0	4578.0	4575.0	4595.0	4635.0	4653.0	4607.0	4501.0	4417.0
22.5°	4768.0	4718.0	4755.0	4784.0	4757.0	4800.0	4856.0	4867.0	4808.0	4662.0	4554.0
25°	4989.0	4930.0	4973.0	5006.0	4951.0	5019.0	5102.0	5124.0	5056.0	4883.0	4740.0
27.5°	5342.0	5262.0	5267.0	5259.0	5191.0	5268.0	5388.0	5437.0	5357.0	5147.0	4975.0
30°	6133.0	5995.0	5830.0	5608.0	5480.0	5587.0	5748.0	5834.0	5739.0	5452.0	5235.0
32.5°	7552.0	7334.0	6993.0	6349.0	5912.0	5973.0	6196.0	6329.0	6242.0	5903.0	5624.0
35°	9591.0	9271.0	8660.0	7814.0	6755.0	6492.0	6771.0	7066.0	6982.0	6613.0	6263.0
37.5°	12015.1	11600.1	10765.0	9617.0	8081.0	7280.0	7538.0	7899.0	7944.0	7517.0	7099.0
40°	14052.1	13621.1	12913.1	11692.1	9983.0	8587.0	8554.0	9167.0	9114.0	8595.0	8093.0
42.5°	15542.1	15117.1	14653.1	13710.1	12370.1	10732.0	9918.0	10460.0	10392.0	9726.0	9145.0
45°	16405.1	15994.1	15729.1	15348.1	14589.1	13794.1	11764.1	12015.1	11757.1	10910.0	10213.0
47.5°	16648.1	16225.1	16198.1	16412.1	16588.1	16728.1	14104.1	13656.1	13159.1	12030.1	11291.1
50°	15838.1	15580.1	15954.1	16854.1	18102.1	18929.1	16740.1	15304.1	14609.1	13243.1	12377.1
52.5°	13450.1	13413.1	14447.1	16301.1	18935.1	20819.1	19294.1	17360.1	16062.1	14390.1	13446.1
55°	10296.0	10286.0	11643.1	14111.1	18467.1	21438.1	21456.1	19541.1	17444.1	15475.1	14470.1
57.5°	7013.0	7127.0	8959.0	11142.0	15963.1	20875.1	22784.1	21776.1	18847.1	16508.1	15435.1
60°	4383.0	4429.0	5976.0	8487.0	12197.1	18173.1	23161.1	23861.1	20059.1	17362.1	16293.1
62.5°	3047.0	3062.0	3728.0	6078.0	8596.0	13318.1	22454.1	25021.1	21172.1	18031.1	16991.1
64°	2545.0	2572.0	2980.0	4670.0	6955.0	10207.0	21286.1	25093.1	21705.1	18321.1	17303.1
65°	2260.0	2299.0	2608.0	3863.0	6072.0	8156.0	19954.1	24882.1	21995.1	18461.1	17434.1
67.5°	1777.0	1768.0	1922.0	2484.0	4384.0	4455.0	15090.1	23523.1	22273.1	18487.1	17454.1
70°	1554.0	1565.0	1638.0	1795.0	3086.0	2802.0	7815.0	20675.1	21295.1	17774.1	16684.1
72.5°	1214.0	1217.0	1390.0	1554.0	2043.0	1861.0	3359.0	15421.1	17684.1	15366.1	14210.1
75°	807.0	845.0	1032.0	1351.0	1398.0	1262.0	1465.0	8065.0	10718.0	10272.0	9140.0
77.5°	542.0	561.0	687.0	998.0	1248.0	802.0	812.0	2700.0	4430.0	3970.0	3462.0
80°	344.0	357.0	452.0	692.0	966.0	584.0	479.0	960.0	1245.0	827.0	673.0
82.5°	234.0	248.0	302.0	499.0	619.0	526.0	286.0	445.0	488.0	216.0	163.0
85°	105.0	145.0	213.0	332.0	403.0	272.0	176.0	222.0	268.0	100.0	56.0
87.5°	20.0	30.0	124.0	179.0	121.0	65.0	86.0	84.0	118.0	40.0	18.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0	3853.0
2.5°	3840.0	3828.0	3810.0	3791.0	3770.0	3760.0	3755.0	3747.0	3745.0	3706.0
5°	3847.0	3817.0	3783.0	3747.0	3709.0	3687.0	3671.0	3651.0	3642.0	3605.0
7.5°	3890.0	3841.0	3790.0	3729.0	3651.0	3562.0	3444.0	3377.0	3324.0	3294.0
10°	3964.0	3894.0	3816.0	3682.0	3461.0	3185.0	2888.0	2689.0	2585.0	2575.0
12.5°	4043.0	3950.0	3823.0	3511.0	3024.0	2532.0	2083.0	1818.0	1694.0	1689.0
15°	4130.0	4013.0	3763.0	3155.0	2412.0	1786.0	1344.0	1115.0	1003.0	997.0
17.5°	4235.0	4080.0	3602.0	2652.0	1742.0	1135.0	846.0	734.0	701.0	697.0
20°	4350.0	4134.0	3322.0	2085.0	1161.0	772.0	650.0	592.0	567.0	563.0
22.5°	4472.0	4155.0	2956.0	1525.0	800.0	618.0	537.0	482.0	456.0	452.0
25°	4632.0	4142.0	2519.0	1052.0	633.0	515.0	434.0	388.0	363.0	361.0
27.5°	4845.0	4091.0	2022.0	753.0	537.0	426.0	350.0	308.0	292.0	290.0
30°	5070.0	3935.0	1536.0	593.0	453.0	348.0	282.0	251.0	239.0	237.0
32.5°	5374.0	3710.0	1101.0	489.0	376.0	284.0	231.0	207.0	199.0	198.0
35°	5919.0	3509.0	746.0	403.0	307.0	233.0	193.0	176.0	172.0	172.0
37.5°	6657.0	3308.0	543.0	337.0	250.0	194.0	165.0	154.0	153.0	153.0
40°	7511.0	3066.0	433.0	284.0	209.0	166.0	143.0	135.0	137.0	137.0
42.5°	8375.0	2740.0	372.0	241.0	179.0	144.0	125.0	117.0	121.0	122.0
45°	9220.0	2307.0	328.0	207.0	157.0	125.0	108.0	101.0	106.0	106.0
47.5°	9975.0	1865.0	289.0	180.0	138.0	109.0	91.0	84.0	88.0	90.0
50°	10720.0	1431.0	253.0	159.0	124.0	94.0	76.0	70.0	74.0	76.0
52.5°	11378.1	1158.0	221.0	142.0	111.0	80.0	63.0	57.0	62.0	63.0
55°	11950.1	944.0	191.0	127.0	97.0	67.0	51.0	47.0	52.0	53.0
57.5°	12434.1	781.0	165.0	113.0	85.0	57.0	43.0	40.0	44.0	46.0
60°	12770.1	635.0	140.0	100.0	73.0	48.0	36.0	33.0	36.0	36.0
62.5°	12952.1	515.0	120.0	88.0	63.0	42.0	31.0	25.0	27.0	27.0
64°	12974.1	457.0	109.0	81.0	57.0	39.0	27.0	20.0	21.0	21.0
65°	12952.1	421.0	100.0	76.0	54.0	37.0	25.0	16.0	16.0	17.0
67.5°	12664.1	346.0	82.0	64.0	45.0	31.0	18.0	10.0	10.0	10.0
70°	11879.1	266.0	68.0	52.0	37.0	26.0	14.0	7.0	6.0	6.0
72.5°	9537.0	183.0	54.0	39.0	29.0	21.0	10.0	4.0	2.0	2.0
75°	4463.0	117.0	38.0	26.0	20.0	16.0	7.0	2.0	0.0	0.0
77.5°	1306.0	67.0	24.0	17.0	14.0	11.0	6.0	1.0	0.0	0.0
80°	266.0	27.0	16.0	13.0	11.0	9.0	5.0	1.0	0.0	0.0
82.5°	45.0	14.0	13.0	10.0	9.0	7.0	4.0	0.0	0.0	0.0
85°	17.0	10.0	11.0	9.0	8.0	6.0	3.0	0.0	0.0	0.0
87.5°	10.0	10.0	10.0	9.0	7.0	4.0	2.0	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

(END OF REPORT)