

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 765575_320MP

Luminaire Tested: **GMX32PXX2DF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765575_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX32PXX2DF
Description: 400W MH TYPE II AREA
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 23357.3 lumens
Efficiency: 77.9%
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')
IES Classification: Type I - Short - Cutoff
BUG Rating: B4 - U2 - G3

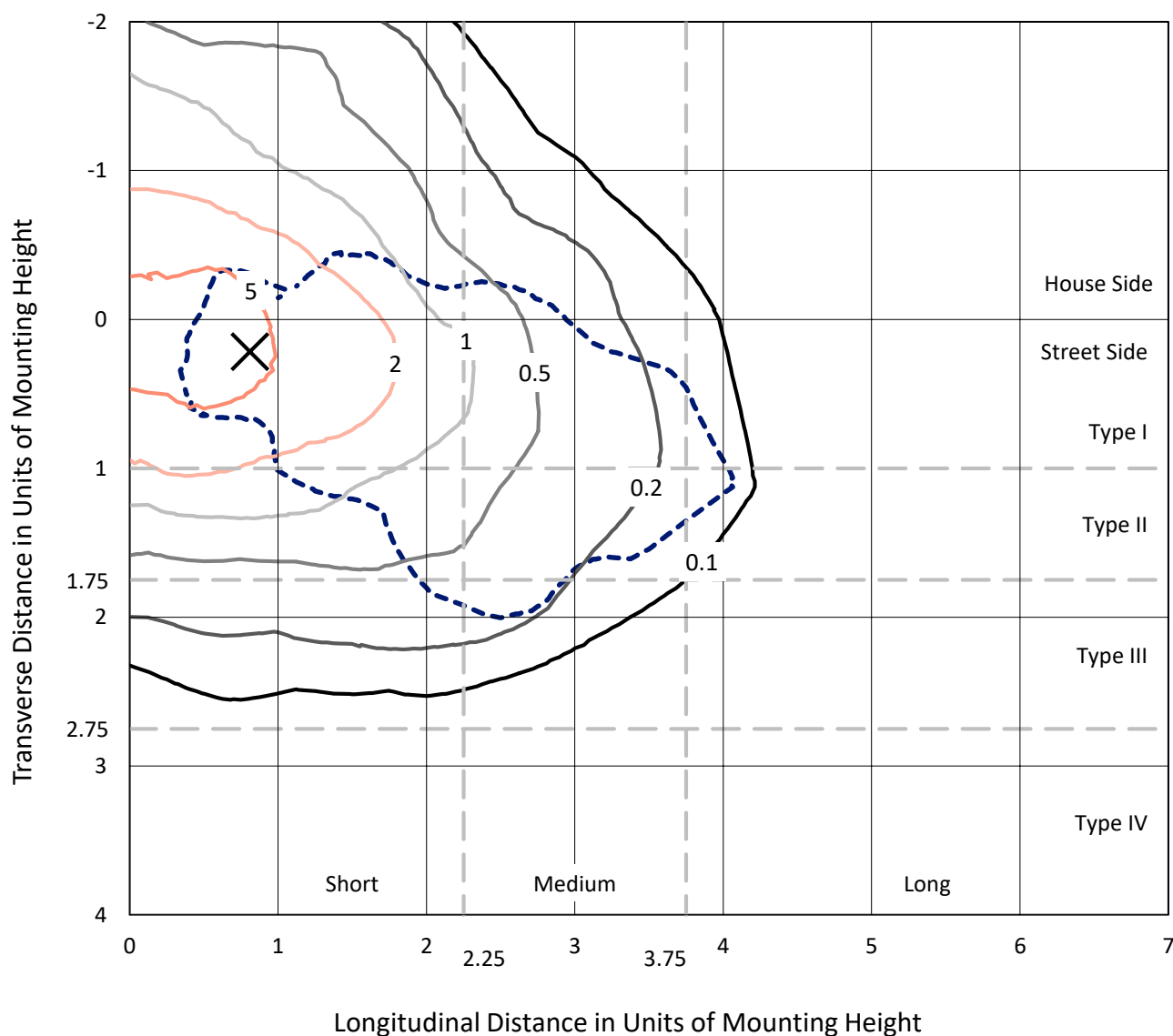
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

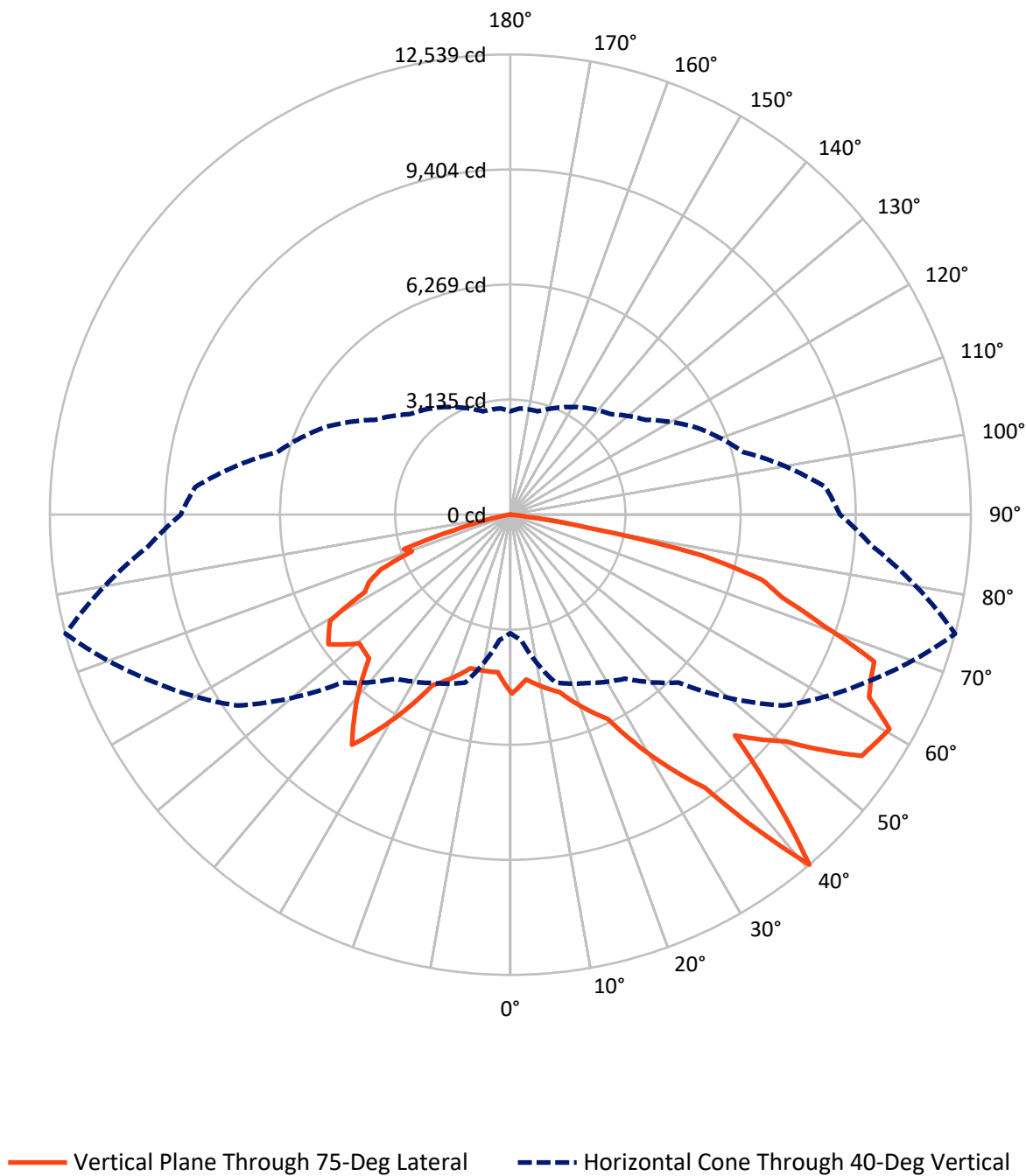
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type I - Short - Cutoff

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Luminous Intensity Polar Plot



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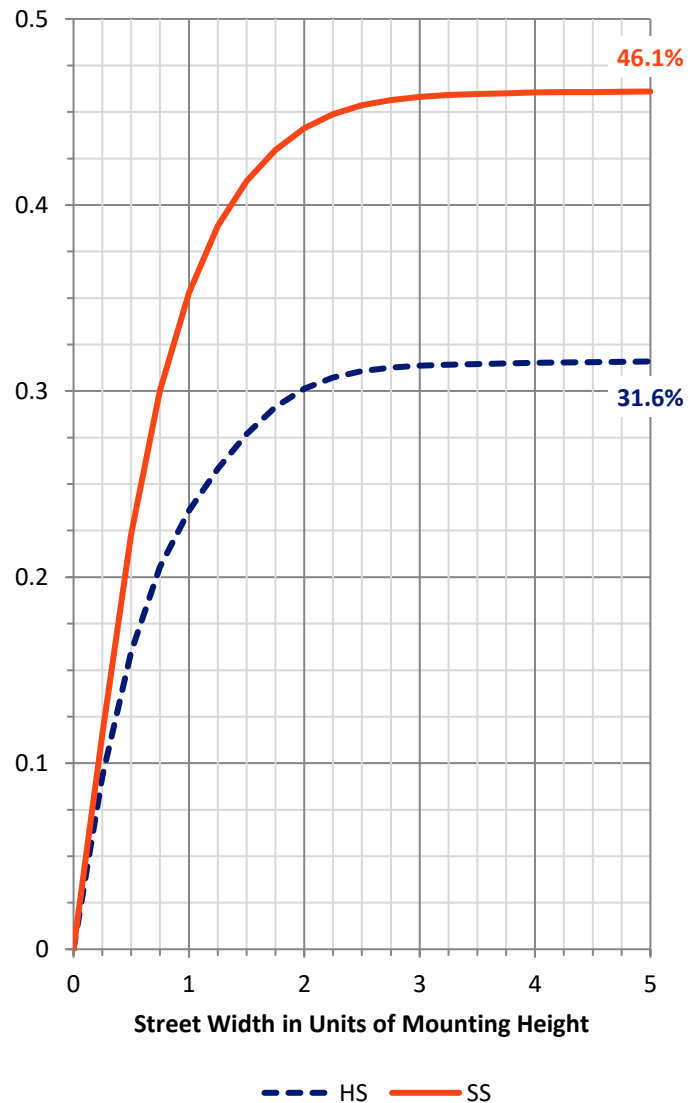
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9520.9	47.3	9568.1
	% Lamp	31.7	0.2	31.9
Street Side	Lumens	13788.0	1.2	13789.2
	% Lamp	46.0	0.0	46.0
Total	Lumens	23308.8	48.5	23357.3
	% Lamp	77.7	0.2	77.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	428.3	1.8	1.4
10°-20°	1285.7	5.5	4.3
20°-30°	2314.4	9.9	7.7
30°-40°	3588.0	15.4	12.0
40°-50°	4046.8	17.3	13.5
50°-60°	4858.5	20.8	16.2
60°-70°	4583.7	19.6	15.3
70°-80°	2073.1	8.9	6.9
80°-90°	114.5	0.5	0.4
90°-100°	17.7	0.1	0.1
100°-110°	16.3	0.1	0.1
110°-120°	11.2	0.0	0.0
120°-130°	3.4	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	23308.8	99.8	77.7
0°-180°	23357.3	100.0	77.9

Coefficient of Utilization



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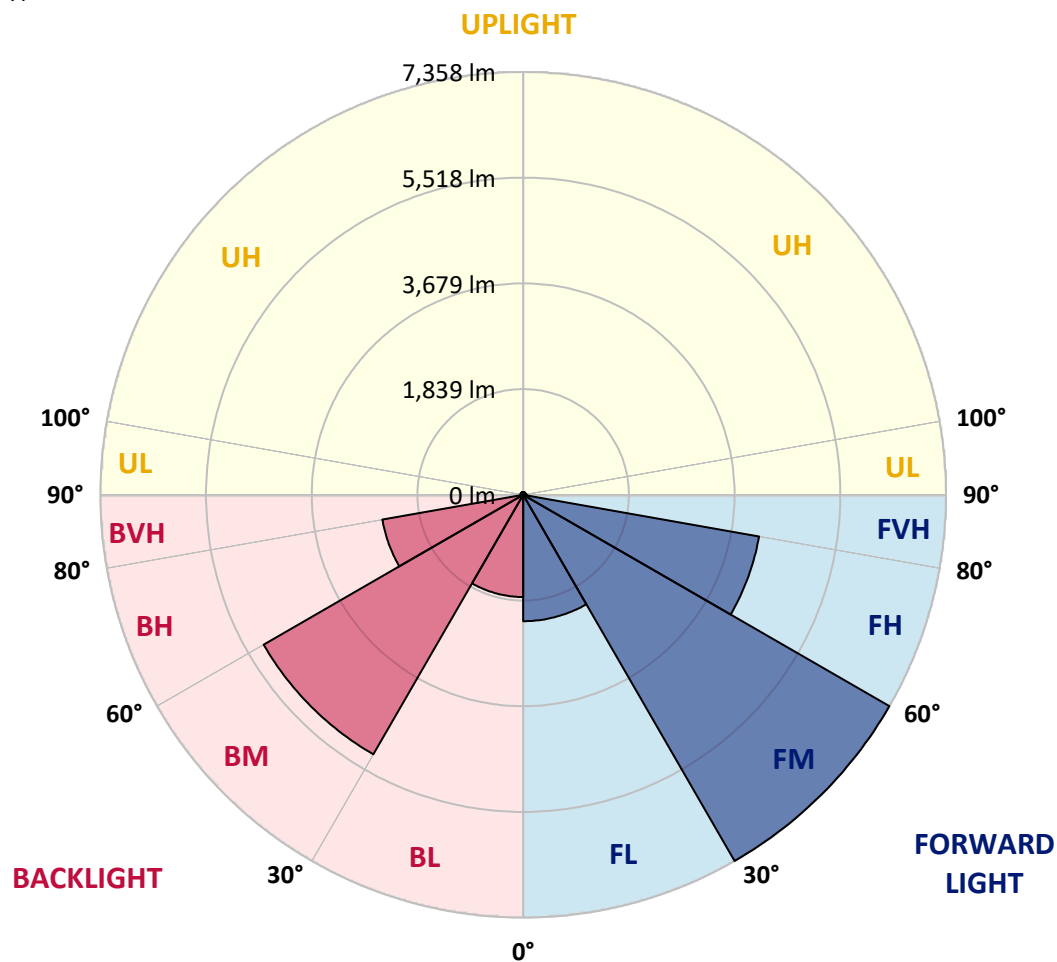
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2198.9	7.3			
FM	(30°-60°)	7357.6	24.5			
FH	(60°-80°)	4168.1	13.9			G2/5000
FVH	(80°-90°)	70.9	0.2			G1/100
BL	(0°-30°)	1778.2	5.9	B3/2500		
BM	(30°-60°)	5214.6	17.4	B4/8500		
BH	(60°-80°)	2488.6	8.3	B3/2500		G3/2500
BVH	(80°-90°)	43.6	0.1			G1/100
UL	(90°-100°)	17.7	0.1		U2/50	
UH	(100°-180°)	47.3	0.2		U2/50	
Trapped Light		6642.7	22.1			

BUG Rating: B4-U2-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9
5°	4862.0	4838.4	4790.2	4774.7	4739.2	4692.8	4636.4	4577.3	4511.8	4447.2	4423.6
15°	4959.4	4955.7	4991.2	5074.9	5122.2	5139.5	5146.8	5164.9	5017.6	4790.2	4702.9
25°	4199.8	4174.3	4389.0	4677.4	4986.7	5373.3	5721.6	6060.9	6164.6	5960.9	5805.3
35°	3516.7	3715.9	4510.0	4550.0	5707.1	7815.6	7903.0	8838.1	9144.6	8566.1	8459.7
40°	3229.2	3431.2	4737.4	5061.2	5454.2	6467.6	9067.3	10751.1	12538.5	9894.2	8975.4
45°	3224.7	3087.3	4258.0	4921.2	4821.1	5289.6	6303.8	8094.0	8578.8	7508.2	6987.0
50°	2659.8	2631.6	3581.3	4319.0	5003.0	5141.3	6046.4	8014.9	9714.1	8915.4	7796.5
55°	2259.6	2175.0	2757.1	3521.2	4953.9	5957.2	6903.3	9795.0	11601.6	11274.1	9934.2
60°	1860.2	1821.1	2235.0	2726.2	3899.6	5597.0	6604.9	9633.1	11862.6	11386.9	9559.4
62.5°	1523.7	1500.0	1967.6	2342.3	3505.8	5334.1	6135.5	8702.5	10964.8	9871.4	8138.6
65°	1174.3	1293.5	1794.7	2088.5	3277.4	5285.0	6004.5	8315.9	10786.5	10576.4	7529.1
67.5°	927.8	1097.9	1655.5	1913.0	3166.5	5332.3	6607.6	8268.6	10688.3	9909.6	8721.6
70°	695.0	826.9	1328.1	1515.5	2744.4	5141.3	7690.1	7635.5	9037.3	7450.0	6464.8
72.5°	455.7	505.8	854.2	888.7	1797.5	4062.5	7238.9	6289.3	7749.2	6127.3	5216.8
75°	203.8	222.0	281.1	374.8	659.5	1675.6	3820.5	6019.1	7079.7	5768.0	5088.5
77.5°	125.5	121.9	121.9	125.5	244.7	604.0	1431.8	3905.1	5336.9	3294.7	2751.7
80°	81.0	72.8	71.0	78.2	127.3	218.3	507.6	1500.9	2144.9	1129.8	1061.6
82.5°	35.5	38.2	39.1	40.0	62.8	86.4	166.5	279.3	404.8	269.3	245.6
85°	11.8	19.1	20.0	14.6	20.9	28.2	50.0	62.8	81.9	72.8	67.3
87.5°	0.0	2.7	2.7	0.0	0.0	4.5	3.6	6.4	7.3	12.7	2.7
90°	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	9.1	14.6	9.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9	4873.9
5°	4389.9	4307.2	4241.7	4188.0	4148.0	4082.5	4077.9	4089.8	4090.7	4086.1
15°	4577.3	4320.8	4073.4	3899.6	3777.7	3695.0	3577.6	3493.0	3449.4	3419.3
25°	5593.4	5105.8	4780.2	4429.0	3976.0	3528.5	3478.5	4084.3	3906.0	3835.1
35°	8234.1	7610.1	6273.8	5235.9	4573.7	4439.1	3524.9	3357.5	2982.7	2932.7
40°	8614.3	6573.1	5607.0	4497.3	3871.4	3554.0	3219.2	2912.7	2904.5	2814.4
45°	6015.5	5486.1	4681.0	3836.9	3415.7	3108.2	2900.8	2990.0	3171.9	3286.5
50°	6767.7	5404.2	4912.1	4067.0	3554.9	3160.1	2923.6	2939.1	3589.4	4077.0
55°	8107.6	6082.8	5442.4	4097.0	3395.7	3197.4	3379.3	3876.0	4225.3	4411.8
60°	8120.4	5694.4	4619.2	3727.7	3351.1	4094.3	4066.1	3679.5	3864.2	4530.0
62.5°	6420.3	4480.0	4319.9	3816.9	3551.2	4459.1	4127.0	3055.5	3472.1	4181.6
65°	5828.1	4260.8	4269.0	3862.3	3706.8	4650.1	3253.8	2662.5	3031.8	3495.8
67.5°	6141.0	3829.6	2969.1	3314.7	3466.6	3676.8	2600.7	2285.0	1953.0	2465.1
70°	5410.6	2858.1	2432.4	2287.8	2687.1	1964.8	1585.5	1211.6	950.6	1219.8
72.5°	5052.2	3052.8	1750.2	1571.0	1209.8	836.9	683.1	554.9	499.4	588.5
75°	3845.1	1585.5	825.0	848.7	509.4	355.7	315.6	303.8	333.8	358.4
77.5°	2211.3	745.9	408.4	385.7	258.3	190.1	184.7	201.9	236.5	280.2
80°	748.6	327.5	203.8	200.1	143.7	108.2	128.3	135.5	113.7	123.7
82.5°	191.0	128.3	90.1	101.0	81.0	65.5	101.9	106.4	58.2	61.9
85°	51.8	38.2	30.0	40.0	34.6	31.8	75.5	113.7	42.8	33.7
87.5°	2.7	0.0	0.9	3.6	7.3	15.5	66.4	112.8	70.0	19.1
90°	0.0	0.0	0.9	0.9	4.5	6.4	58.2	98.2	110.1	30.9
95°	0.0	0.0	0.0	0.9	4.5	10.9	62.8	101.9	101.9	121.0
105°	0.0	0.0	0.9	3.6	7.3	14.6	57.3	121.0	58.2	59.1
115°	0.0	0.9	4.5	7.3	10.9	11.8	39.1	118.3	75.5	88.2
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)