

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: 765579_320MP

Luminaire Tested: **GMX32PXX3DF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765579_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX32PXX3DF
Description: 400W MH TYPE III AREA
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 23446.1 lumens
Efficiency: 78.2%
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')
IES Classification: Type II - Short - Cutoff
BUG Rating: B4 - U2 - G3

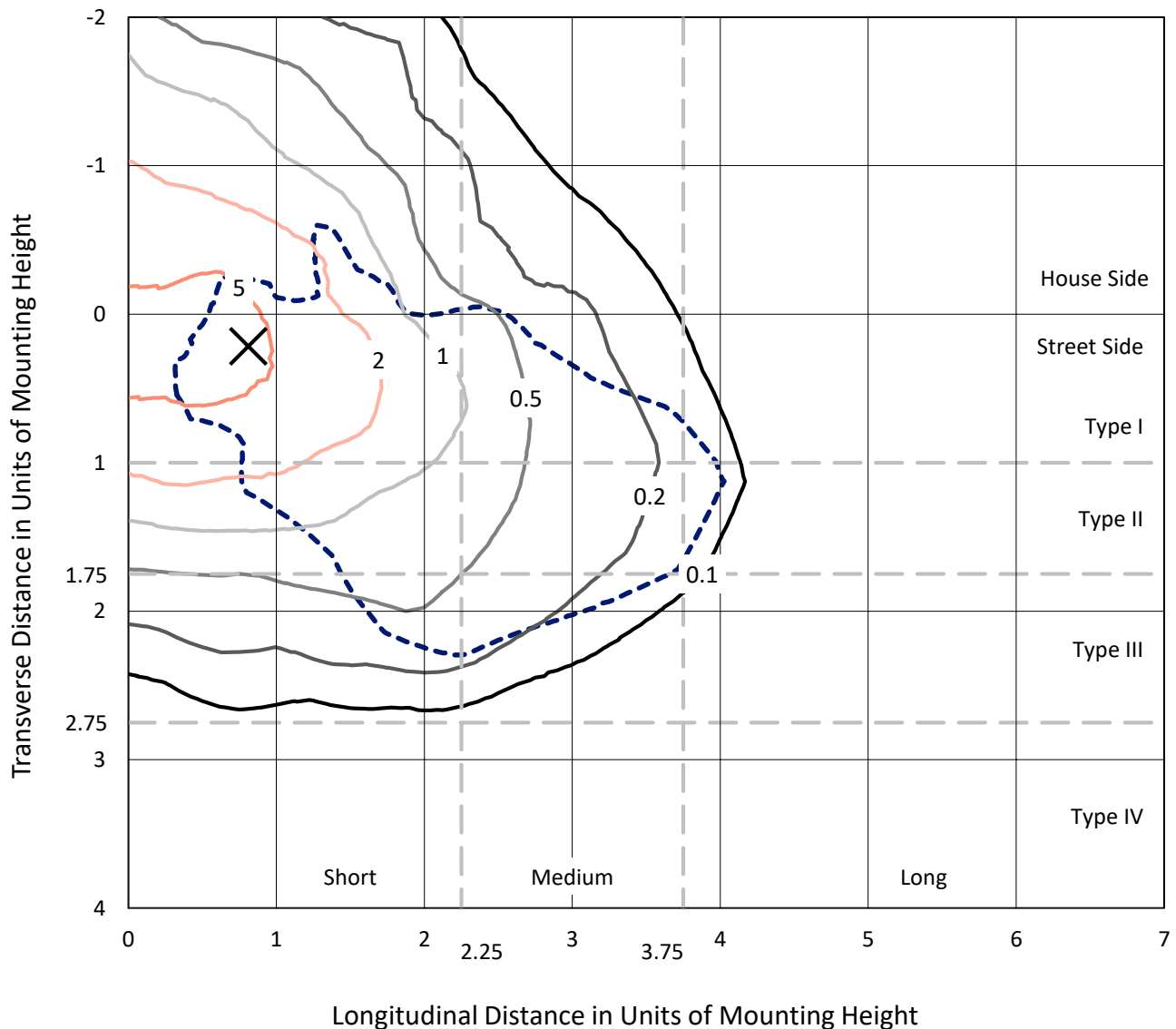
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

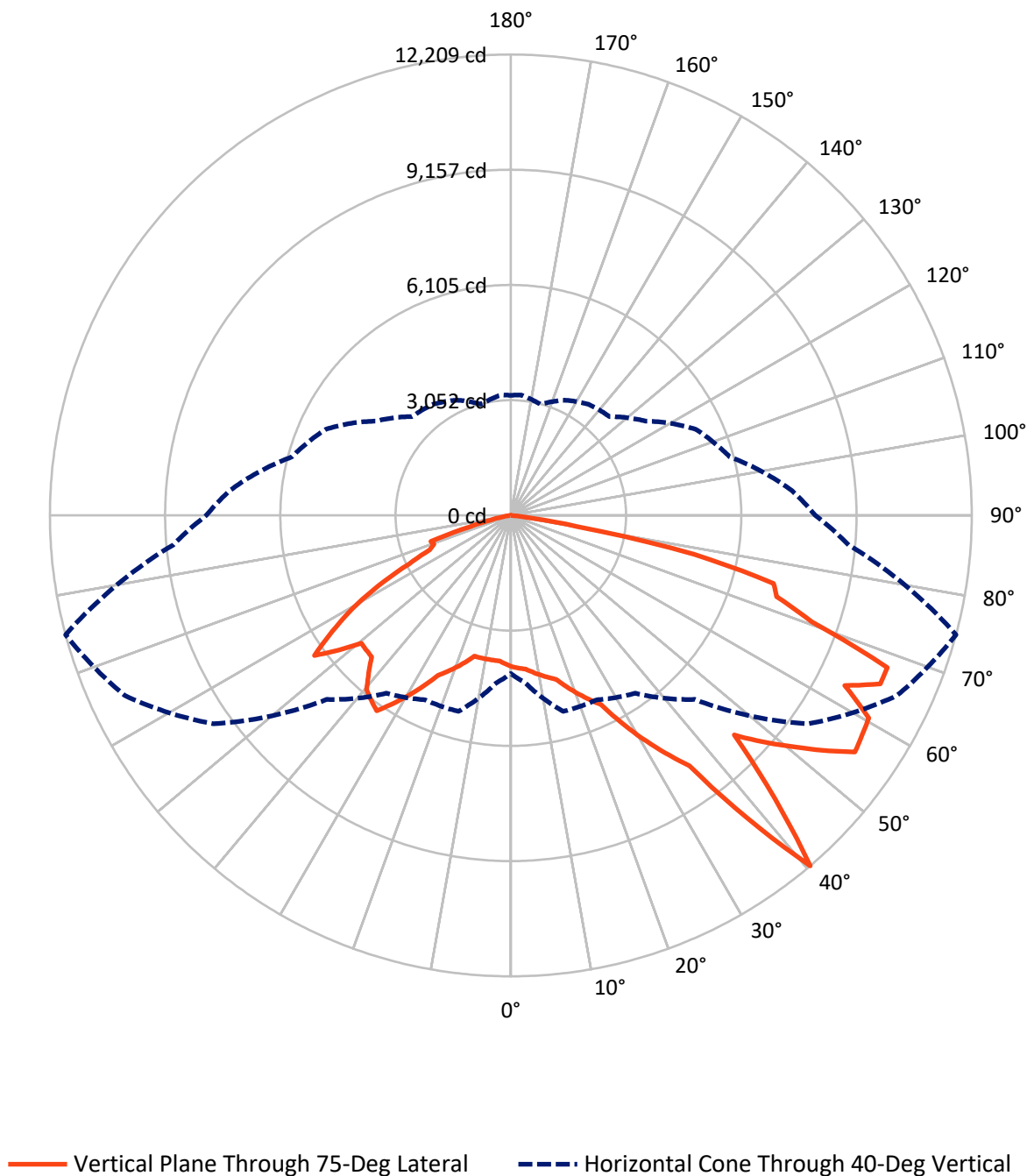
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - Cutoff

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Luminous Intensity Polar Plot



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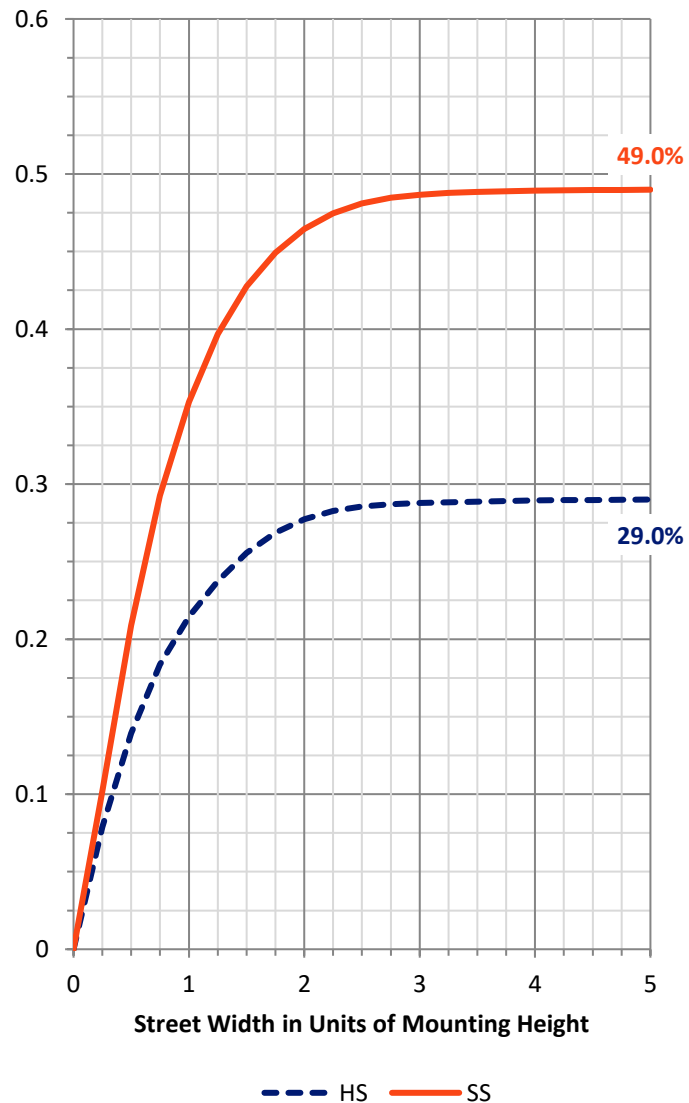
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8739.0	48.3	8787.3
	% Lamp	29.1	0.2	29.3
Street Side	Lumens	14658.8	0.0	14658.8
	% Lamp	48.9	0.0	48.9
Total	Lumens	23397.8	48.3	23446.1
	% Lamp	78.0	0.2	78.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	386.3	1.6	1.3
10°-20°	1203.4	5.1	4.0
20°-30°	2212.9	9.4	7.4
30°-40°	3540.0	15.1	11.8
40°-50°	4247.1	18.1	14.2
50°-60°	5126.6	21.9	17.1
60°-70°	4542.8	19.4	15.1
70°-80°	2068.6	8.8	6.9
80°-90°	96.2	0.4	0.3
90°-100°	17.5	0.1	0.1
100°-110°	16.4	0.1	0.1
110°-120°	11.1	0.0	0.0
120°-130°	3.3	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°	23397.8	99.8	78.0
0°-180°	23446.1	100.0	78.2

Coefficient of Utilization



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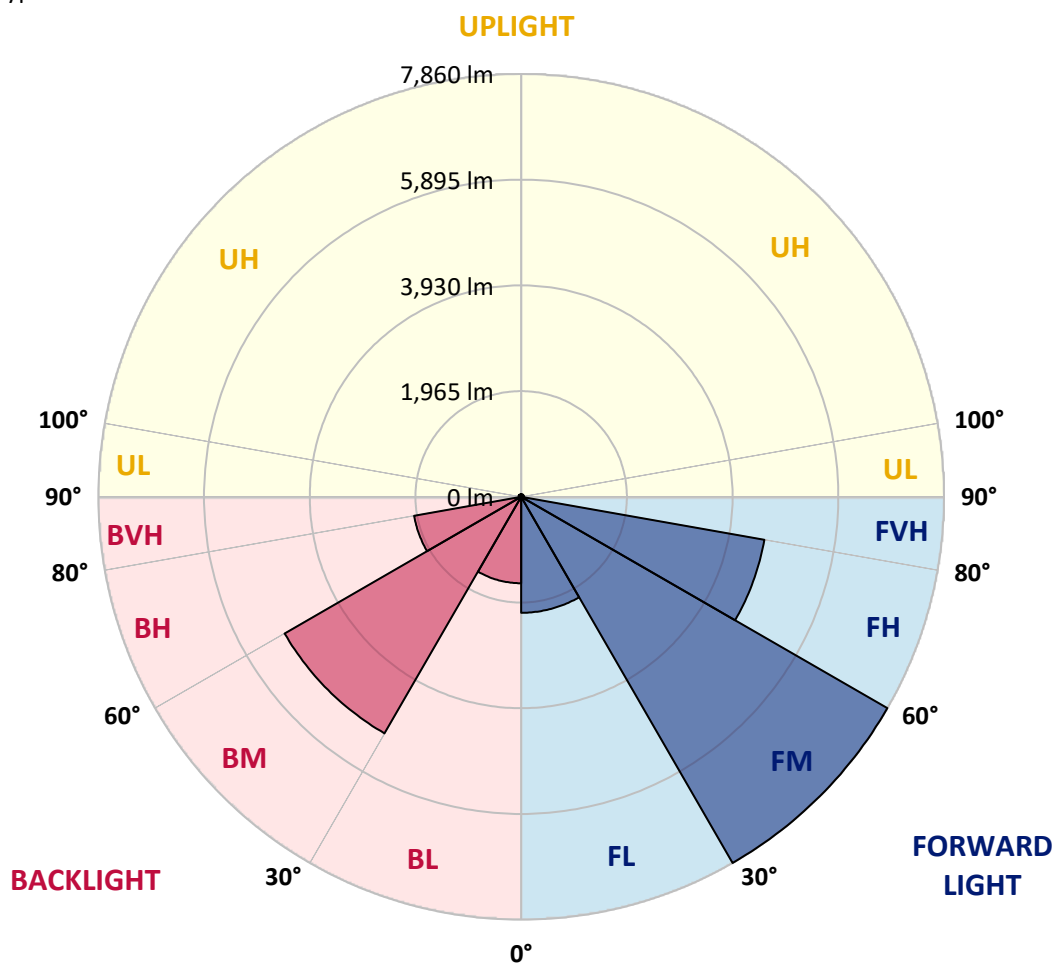
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2155.9	7.2			
FM	(30°-60°)	7860.0	26.2			
FH	(60°-80°)	4590.2	15.3			G2/5000
FVH	(80°-90°)	60.0	0.2			G1/100
BL	(0°-30°)	1606.7	5.4	B3/2500		
BM	(30°-60°)	5078.3	16.9	B4/8500		
BH	(60°-80°)	2021.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	36.3	0.1			G1/100
UL	(90°-100°)	17.5	0.1		U2/50	
UH	(100°-180°)	48.3	0.2		U2/50	
Trapped Light		6553.9	21.8			

BUG Rating: B4-U2-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6
5°	4608.2	4548.2	4490.0	4440.0	4384.5	4306.2	4258.0	4171.6	4090.7	4023.3	3981.5
15°	5208.6	5161.3	5107.6	5145.8	5104.0	4947.5	4866.6	4723.8	4507.3	4269.0	4150.7
25°	5106.7	4856.6	5000.3	5134.9	5230.4	5462.4	5601.6	5686.2	5552.5	5255.0	5054.9
35°	4171.6	4299.9	4852.0	4909.3	6393.9	8326.9	7949.4	8428.7	8143.1	7344.5	7238.9
40°	4190.7	4455.4	5373.3	5387.8	5750.8	6892.4	9622.2	11286.8	12209.2	8980.9	8068.5
45°	4029.7	4320.8	5365.1	5379.6	5387.8	6070.0	7021.5	8922.7	8298.7	7019.7	6564.9
50°	3695.0	3766.8	4755.6	5180.4	5465.1	5803.5	7339.9	9373.0	9615.8	7696.5	6349.3
55°	3028.2	3177.4	3869.6	4800.2	5973.6	7456.3	8885.4	11762.6	11059.4	8845.4	6823.2
60°	2416.0	2491.5	2958.2	3816.9	5298.7	6868.7	7766.5	11269.6	10895.7	8667.1	6669.5
62.5°	1941.2	1979.4	2547.0	3162.8	5024.9	6733.2	7309.9	10123.4	9925.1	7620.1	5608.9
65°	1409.9	1555.5	2307.8	2698.9	4842.0	6638.6	7737.4	9727.7	10754.7	7477.3	5849.9
67.5°	1134.3	1248.0	2049.4	2429.7	4675.6	7530.9	8377.8	10000.6	10756.5	8411.5	6519.4
70°	811.4	893.3	1611.0	1944.8	3987.0	8649.8	9183.7	9524.0	8459.7	6041.8	4844.8
72.5°	536.7	530.3	784.1	1130.7	2534.3	6328.4	7933.0	8150.4	7362.6	5139.5	4577.3
75°	221.0	215.6	264.7	381.1	1061.6	2206.8	5114.9	7318.1	7189.8	4468.2	3505.8
77.5°	113.7	113.7	109.2	154.6	314.7	761.4	1602.8	4300.8	4962.1	2205.0	1590.1
80°	57.3	57.3	53.7	77.3	144.6	281.1	513.9	1578.2	1772.9	727.7	490.3
82.5°	23.7	19.1	20.0	28.2	63.7	108.2	148.3	288.4	312.9	199.2	127.3
85°	0.0	0.0	0.0	0.0	14.6	33.7	36.4	50.0	59.1	45.5	24.6
87.5°	0.0	0.0	0.0	0.0	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
95°	0.0	0.0	0.0	0.0	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°	0.0	0.0	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°	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6	4010.6
5°	3938.8	3866.0	3807.8	3746.8	3692.2	3669.5	3652.2	3657.7	3657.7	3654.0
15°	4058.8	3851.4	3681.3	3533.1	3379.3	3255.6	3156.5	3081.0	3017.3	3016.4
25°	4921.2	4655.5	4362.6	4065.2	3603.1	3271.1	3283.8	3854.2	3714.1	3604.9
35°	6873.3	6276.5	5733.5	4787.4	4111.6	3916.9	3312.9	3368.4	3291.1	3125.5
40°	7480.9	5999.1	5403.3	4354.5	3698.6	3593.1	3368.4	3044.6	3197.4	3181.9
45°	5843.5	5255.0	4618.3	3961.5	3664.9	3353.9	3165.6	3181.0	3544.0	3654.0
50°	5505.2	5207.7	4807.5	4513.6	3910.6	3383.9	3219.2	3338.4	3956.0	3944.2
55°	6178.3	6389.3	6120.1	4416.3	3657.7	3550.3	4031.5	4272.6	4227.1	4411.8
60°	6246.5	4873.9	4467.3	3847.8	3419.3	4008.8	3826.9	3332.0	4112.5	5156.8
62.5°	4830.2	3969.7	4010.6	3468.5	3391.1	3796.8	3353.9	3026.4	3813.2	4674.7
65°	4209.8	2992.7	3614.0	2987.3	3239.2	3302.0	2789.9	2686.2	3262.9	3804.1
67.5°	3648.6	2334.1	2704.4	1983.0	2834.4	2140.4	1880.2	1937.5	1936.6	2382.4
70°	2798.1	2177.7	2119.5	1762.9	2484.2	1443.6	1099.8	927.8	880.5	930.6
72.5°	3795.9	2228.6	1513.6	1298.1	1055.2	703.2	542.1	493.9	507.6	503.0
75°	2756.2	1126.1	725.0	651.3	427.5	273.8	312.0	404.8	339.3	348.4
77.5°	1200.7	548.5	292.9	358.4	199.2	152.8	201.9	248.3	237.4	293.8
80°	425.7	268.3	147.4	239.2	110.1	81.9	152.8	142.8	97.3	111.9
82.5°	139.2	111.9	65.5	59.1	55.5	45.5	130.1	117.3	40.0	45.5
85°	27.3	28.2	15.5	22.7	23.7	12.7	116.4	109.2	34.6	14.6
87.5°	0.0	0.0	0.0	0.0	3.6	0.9	102.8	113.7	69.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	94.6	100.1	102.8	2.7
95°	0.0	0.0	4.5	0.0	0.9	0.9	96.4	112.8	91.0	54.6
105°	0.0	0.0	0.0	0.9	2.7	2.7	90.1	121.0	61.9	63.7
115°	0.0	0.0	0.0	2.7	6.4	7.3	54.6	124.6	65.5	66.4
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)