

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_350MP

Luminaire Tested: **GMX35PXX2DF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765575_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX2DF
Description: 400W MH TYPE II AREA
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 25693.1 lumens
Efficiency: 77.9%
Efficacy: 64.7 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 - G4

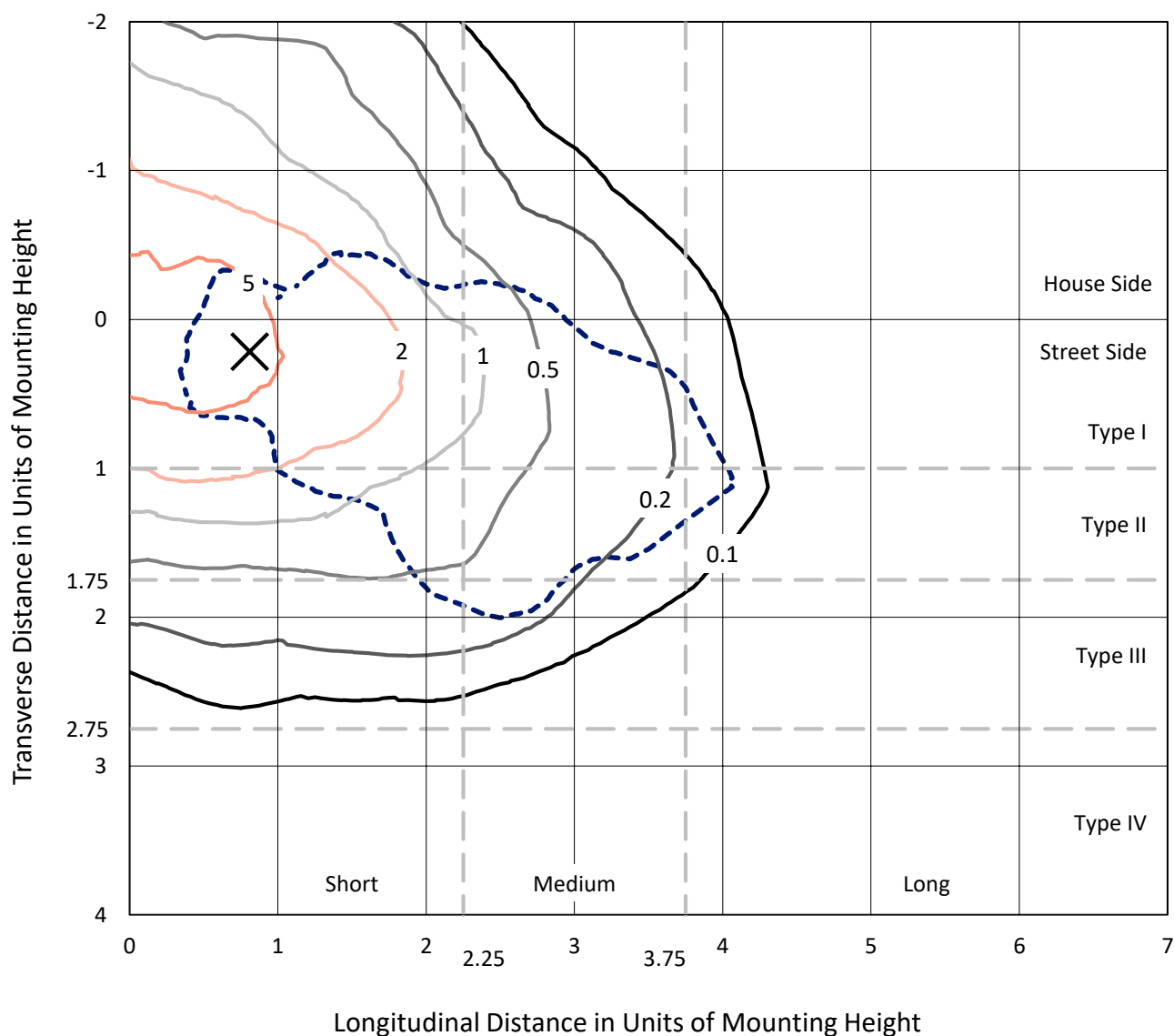
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

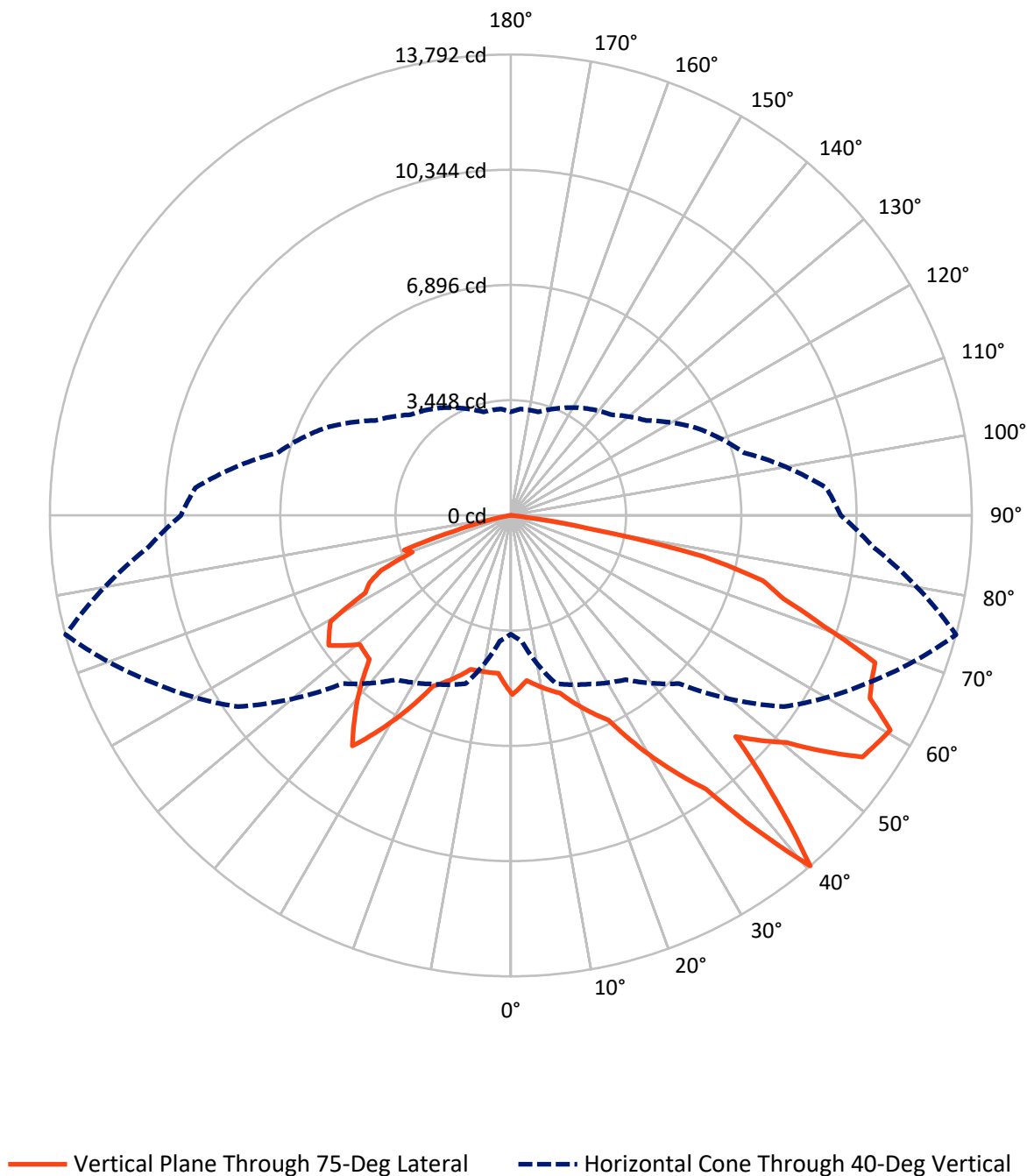
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type I - Short - Cutoff

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Luminous Intensity Polar Plot



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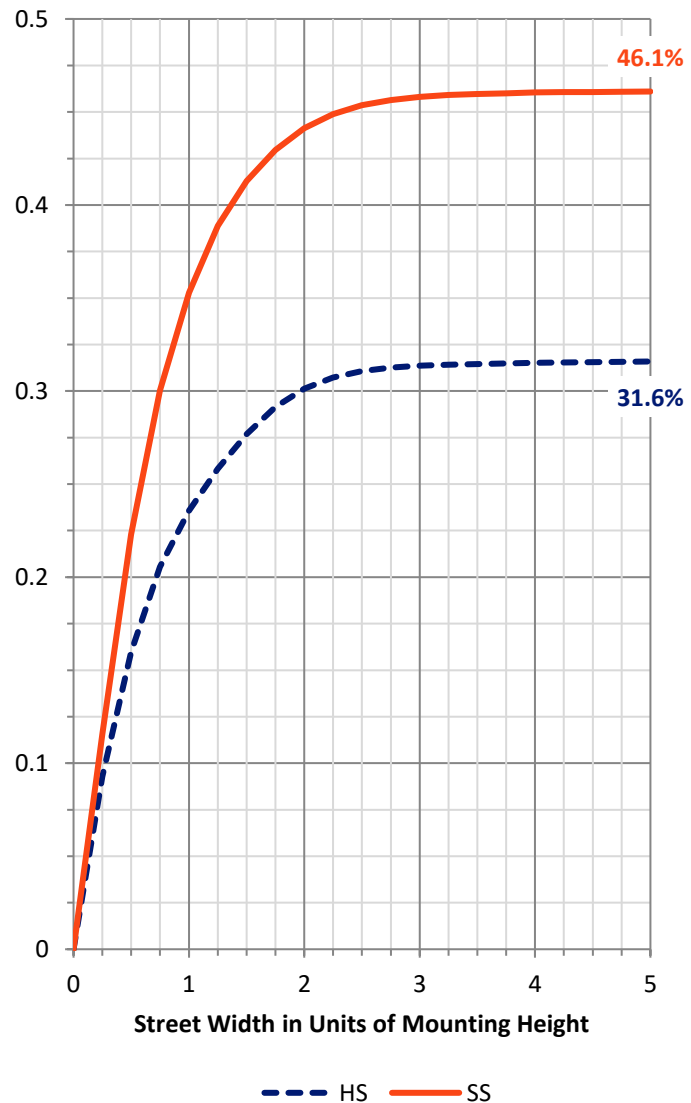
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10472.9	52.0	10524.9
	% Lamp	31.7	0.2	31.9
Street Side	Lumens	15166.8	1.4	15168.1
	% Lamp	46.0	0.0	46.0
Total	Lumens	25639.7	53.3	25693.1
	% Lamp	77.7	0.2	77.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	471.1	1.8	1.4
10°-20°	1414.3	5.5	4.3
20°-30°	2545.8	9.9	7.7
30°-40°	3946.8	15.4	12.0
40°-50°	4451.5	17.3	13.5
50°-60°	5344.3	20.8	16.2
60°-70°	5042.0	19.6	15.3
70°-80°	2280.4	8.9	6.9
80°-90°	126.0	0.5	0.4
90°-100°	19.5	0.1	0.1
100°-110°	18.0	0.1	0.1
110°-120°	12.3	0.0	0.0
120°-130°	3.8	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°	25639.7	99.8	77.7
0°-180°	25693.1	100.0	77.9

Coefficient of Utilization



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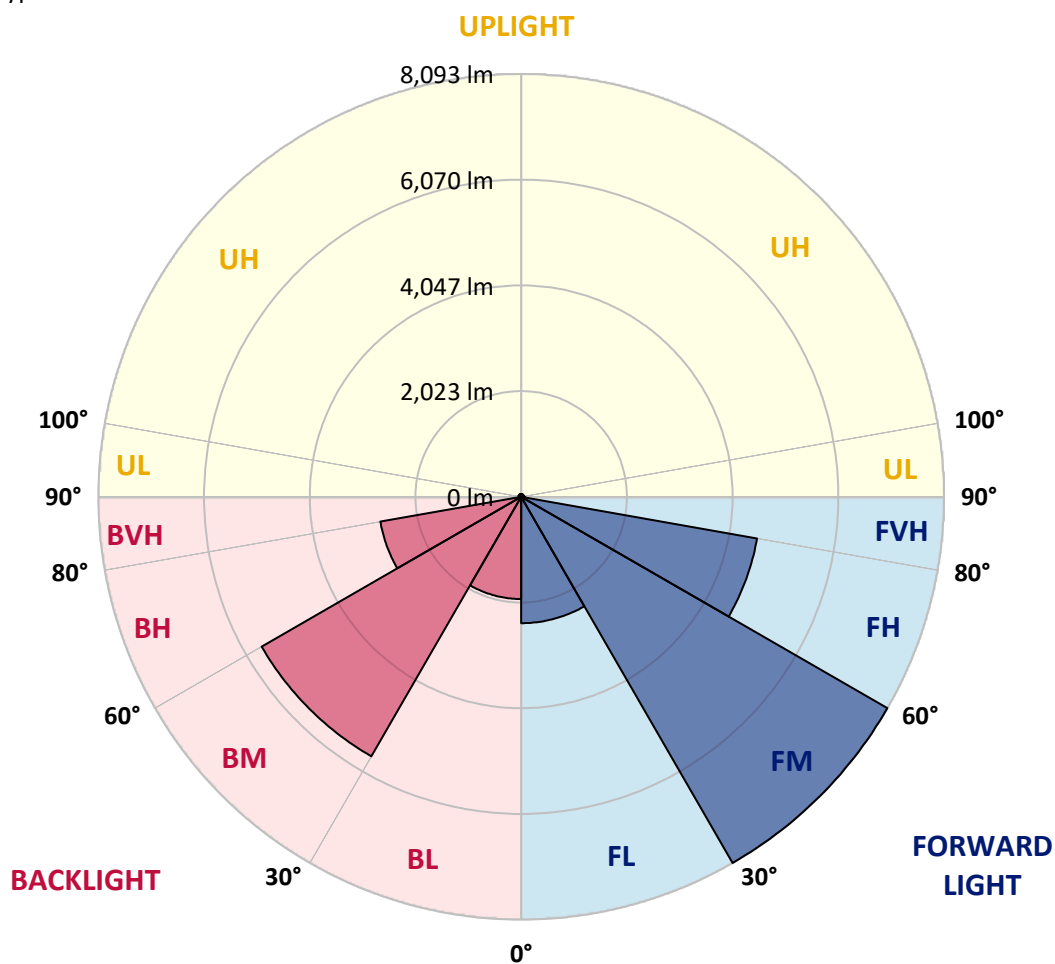
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2418.8	7.3			
FM	(30°-60°)	8093.4	24.5			
FH	(60°-80°)	4585.0	13.9			G2/5000
FVH	(80°-90°)	78.0	0.2			G1/100
BL	(0°-30°)	1956.1	5.9	B3/2500		
BM	(30°-60°)	5736.0	17.4	B4/8500		
BH	(60°-80°)	2737.5	8.3	B4/5000		G4/5000
BVH	(80°-90°)	48.0	0.1			G1/100
UL	(90°-100°)	19.5	0.1		U2/50	
UH	(100°-180°)	52.0	0.2		U3/500	
Trapped Light		7306.9	22.1			

BUG Rating: B4-U2-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2
5°	5348.2	5322.2	5269.2	5252.2	5213.2	5162.1	5100.1	5035.1	4963.0	4892.0	4865.9
15°	5455.3	5451.3	5490.3	5582.4	5634.4	5653.4	5661.4	5681.4	5519.3	5269.2	5173.1
25°	4619.8	4591.8	4827.9	5145.1	5485.3	5910.6	6293.8	6667.0	6781.1	6557.0	6385.9
35°	3868.3	4087.5	4961.0	5005.0	6277.8	8597.2	8693.3	9721.9	10059.1	9422.7	9305.6
40°	3552.2	3774.3	5211.2	5567.4	5999.6	7114.3	9974.0	11826.2	13792.4	10883.6	9873.0
45°	3547.1	3396.1	4683.8	5413.3	5303.2	5818.5	6934.2	8903.4	9436.7	8259.0	7685.7
50°	2925.8	2894.8	3939.4	4750.9	5503.3	5655.4	6651.0	8816.3	10685.5	9806.9	8576.2
55°	2485.5	2392.4	3032.8	3873.3	5449.3	6553.0	7593.6	10774.5	12761.7	12401.5	10927.6
60°	2046.2	2003.2	2458.5	2998.8	4289.6	6156.7	7265.4	10596.4	13048.9	12525.6	10515.4
62.5°	1676.0	1650.0	2164.3	2576.6	3856.3	5867.6	6749.1	9572.8	12061.3	10858.6	8952.4
65°	1291.8	1422.9	1974.2	2297.4	3605.2	5813.5	6605.0	9147.5	11865.2	11634.1	8282.0
67.5°	1020.6	1207.7	1821.1	2104.3	3483.1	5865.6	7268.4	9095.5	11757.1	10900.6	9593.8
70°	764.5	909.6	1460.9	1667.0	3018.8	5655.4	8459.1	8399.1	9941.0	8195.0	7111.3
72.5°	501.3	556.3	939.6	977.6	1977.2	4468.7	7962.8	6918.2	8524.2	6740.1	5738.5
75°	224.1	244.1	309.2	412.2	725.4	1843.1	4202.5	6621.0	7787.7	6344.8	5597.4
77.5°	138.1	134.1	134.1	138.1	269.2	664.4	1575.0	4295.6	5870.6	3624.2	3026.8
80°	89.1	80.0	78.0	86.1	140.1	240.1	558.3	1651.0	2359.4	1242.8	1167.7
82.5°	39.0	42.0	43.0	44.0	69.0	95.1	183.1	307.2	445.3	296.2	270.2
85°	13.0	21.0	22.0	16.0	23.0	31.0	55.0	69.0	90.1	80.0	74.0
87.5°	0.0	3.0	3.0	0.0	0.0	5.0	4.0	7.0	8.0	14.0	3.0
90°	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	10.0	16.0	10.0	1.0	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°	3.0	3.0	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°	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2	5361.2
5°	4828.9	4737.9	4665.8	4606.8	4562.8	4490.7	4485.7	4498.7	4499.7	4494.7
15°	5035.1	4752.9	4480.7	4289.6	4155.5	4064.5	3935.4	3842.3	3794.3	3761.3
25°	6152.7	5616.4	5258.2	4872.0	4373.7	3881.4	3826.3	4492.7	4296.6	4218.6
35°	9057.5	8371.1	6901.2	5759.5	5031.0	4883.0	3877.3	3693.2	3281.0	3226.0
40°	9475.7	7230.4	6167.7	4947.0	4258.6	3909.4	3541.1	3203.9	3194.9	3095.9
45°	6617.0	6034.7	5149.1	4220.6	3757.3	3419.1	3190.9	3289.0	3489.1	3615.2
50°	7444.5	5944.6	5403.3	4473.7	3910.4	3476.1	3215.9	3233.0	3948.4	4484.7
55°	8918.4	6691.1	5986.6	4506.7	3735.3	3517.1	3717.3	4263.6	4647.8	4852.9
60°	8932.4	6263.8	5081.1	4100.5	3686.2	4503.7	4472.7	4047.5	4250.6	4983.0
62.5°	7062.3	4928.0	4751.9	4198.5	3906.4	4905.0	4539.8	3361.0	3819.3	4599.8
65°	6410.9	4686.8	4695.8	4248.6	4077.5	5115.1	3579.2	2928.8	3335.0	3845.3
67.5°	6755.1	4212.6	3266.0	3646.2	3813.3	4044.5	2860.7	2513.5	2148.3	2711.6
70°	5951.6	3143.9	2675.6	2516.5	2955.8	2161.3	1744.1	1332.8	1045.6	1341.8
72.5°	5557.4	3358.0	1925.2	1728.0	1330.8	920.6	751.5	610.4	549.3	647.4
75°	4229.6	1744.1	907.6	933.6	560.3	391.2	347.2	334.2	367.2	394.2
77.5°	2432.5	820.5	449.3	424.3	284.2	209.1	203.1	222.1	260.2	308.2
80°	823.5	360.2	224.1	220.1	158.1	119.1	141.1	149.1	125.1	136.1
82.5°	210.1	141.1	99.1	111.1	89.1	72.0	112.1	117.1	64.0	68.0
85°	57.0	42.0	33.0	44.0	38.0	35.0	83.1	125.1	47.0	37.0
87.5°	3.0	0.0	1.0	4.0	8.0	17.0	73.0	124.1	77.0	21.0
90°	0.0	0.0	1.0	1.0	5.0	7.0	64.0	108.1	121.1	34.0
95°	0.0	0.0	0.0	1.0	5.0	12.0	69.0	112.1	112.1	133.1
105°	0.0	0.0	1.0	4.0	8.0	16.0	63.0	133.1	64.0	65.0
115°	0.0	1.0	5.0	8.0	12.0	13.0	43.0	130.1	83.1	97.1
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)