

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: 767515_350MP

Luminaire Tested: **GMX35PXX3V**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 767515_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX3V
Description: 400MH TYPE III VERTICAL AREA
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 23969.9 lumens
Efficiency: 64.8%
Efficacy: 60.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Cutoff
BUG Rating: B4 - U3 - G4

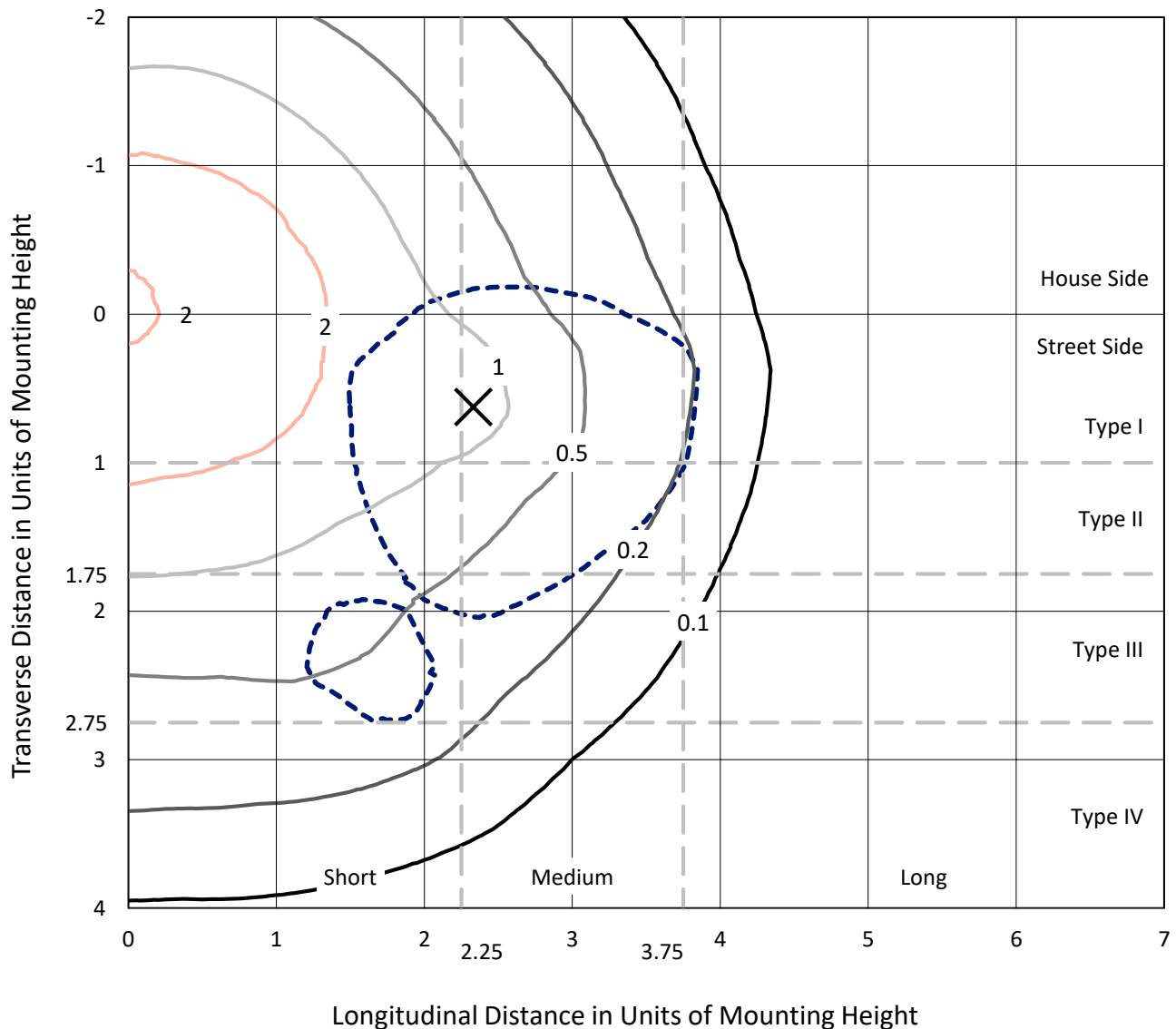
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

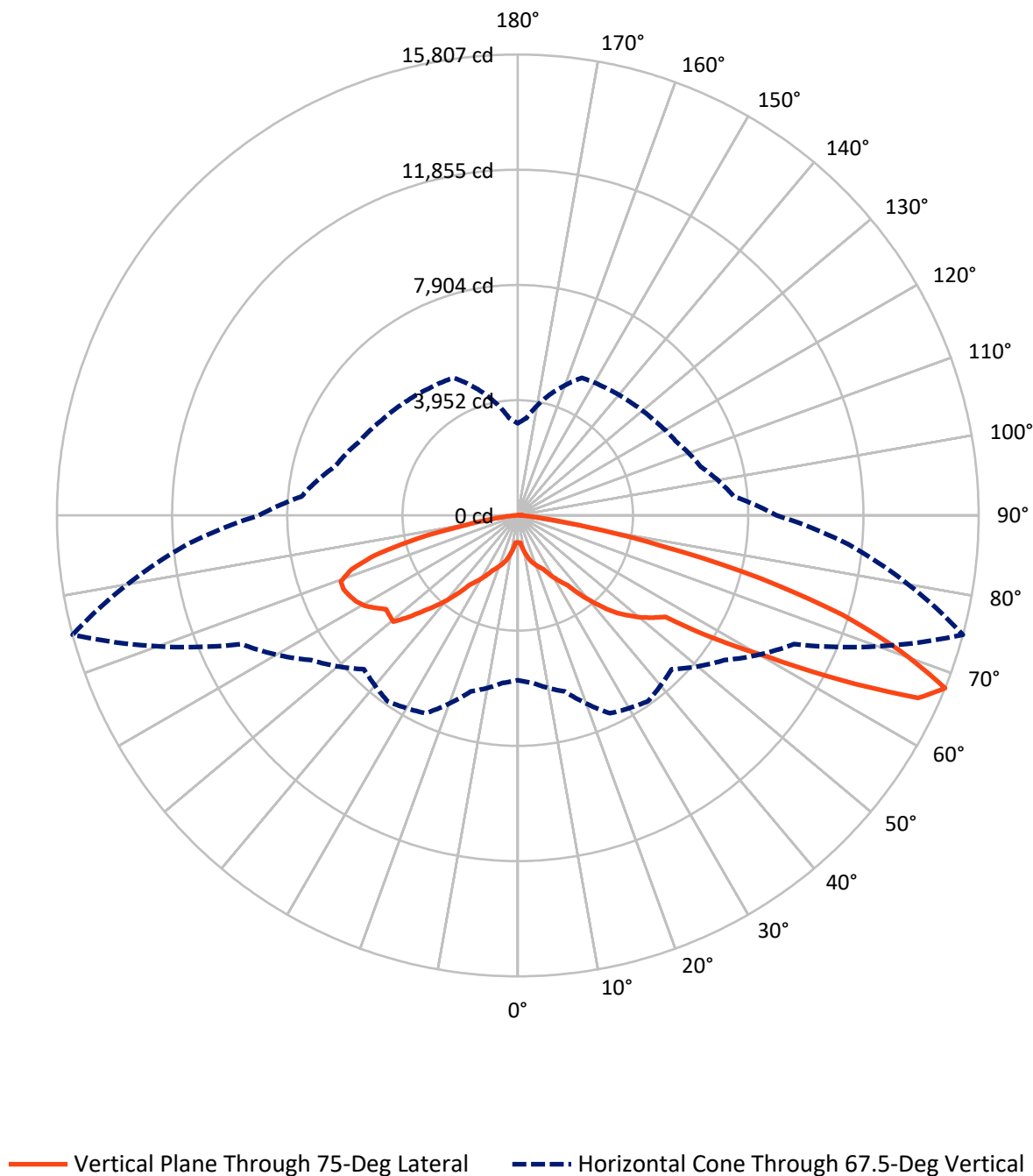
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - Cutoff

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Luminous Intensity Polar Plot



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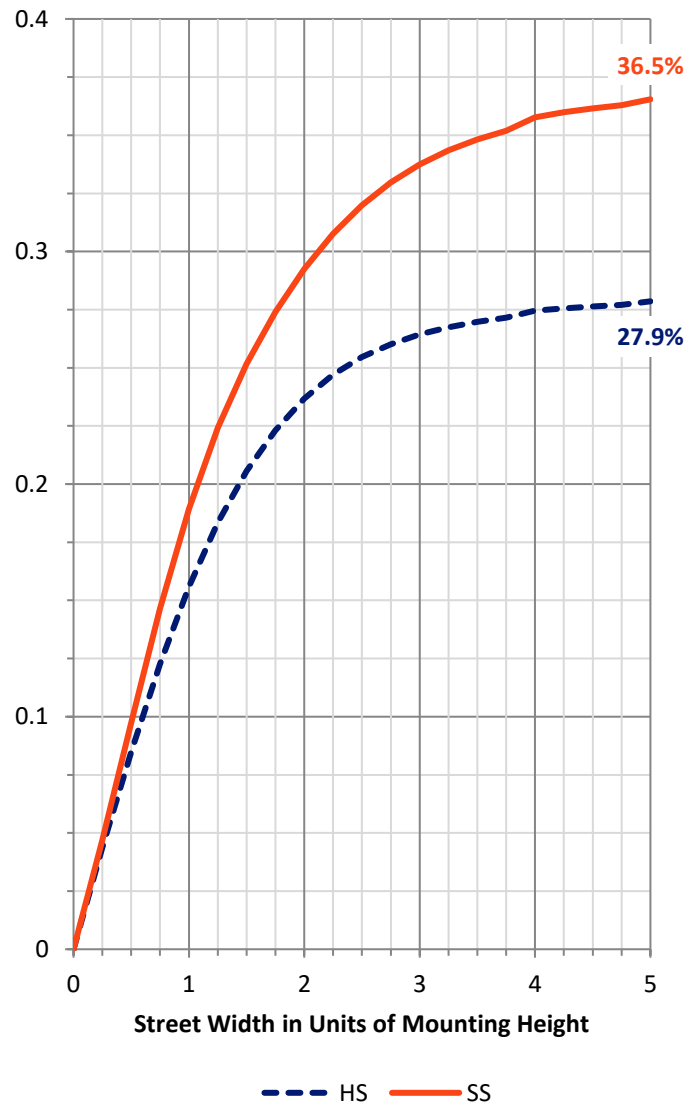
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10337.9	28.3	10366.2
	% Lamp	27.9	0.1	28.0
Street Side	Lumens	13547.8	55.8	13603.6
	% Lamp	36.6	0.2	36.8
Total	Lumens	23885.7	84.2	23969.9
	% Lamp	64.6	0.2	64.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	100.4	0.4	0.3
10°-20°	422.1	1.8	1.1
20°-30°	941.1	3.9	2.5
30°-40°	1833.8	7.7	5.0
40°-50°	3273.8	13.7	8.8
50°-60°	4805.2	20.0	13.0
60°-70°	6797.0	28.4	18.4
70°-80°	5150.4	21.5	13.9
80°-90°	613.2	2.6	1.7
90°-100°	65.8	0.3	0.2
100°-110°	22.0	0.1	0.1
110°-120°	3.0	0.0	0.0
120°-130°	0.2	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°	23885.7	99.6	64.6
0°-180°	23969.9	100.0	64.8

Coefficient of Utilization



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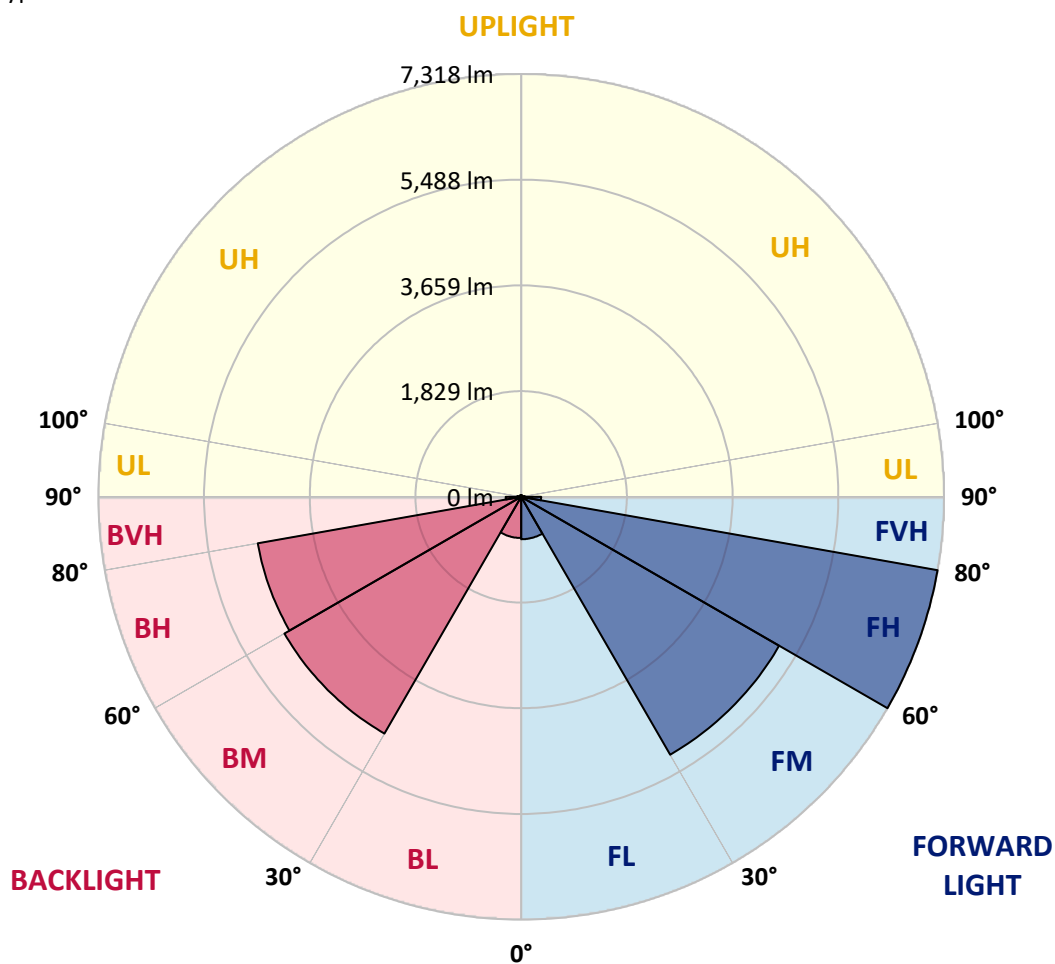
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.8	2.0			
FM	(30°-60°)	5154.2	13.9			
FH	(60°-80°)	7318.0	19.8			G3/7500
FVH	(80°-90°)	345.2	0.9			G3/500
BL	(0°-30°)	713.1	1.9	B2/1000		
BM	(30°-60°)	4731.2	12.8	B3/5000		
BH	(60°-80°)	4629.5	12.5	B4/5000		G4/5000
BVH	(80°-90°)	268.1	0.7			G3/500
UL	(90°-100°)	65.8	0.2		U3/500	
UH	(100°-180°)	28.3	0.1		U2/50	
Trapped Light		13030.1	35.2			

BUG Rating: B4-U3-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2
5°	986.7	981.5	986.7	981.5	976.4	986.7	991.8	970.2	943.5	928.1	921.9
15°	1555.0	1555.0	1560.2	1571.5	1565.3	1603.3	1586.9	1673.2	1608.5	1555.0	1544.7
25°	1855.1	1839.7	1850.0	1850.0	1855.1	1919.9	1963.1	2005.2	2043.2	2096.7	2096.7
35°	2573.6	2563.3	2584.9	2595.1	2659.9	2778.1	2938.4	2965.1	2938.4	3061.7	3013.4
45°	4096.7	3914.8	3893.2	4075.1	4133.7	4665.1	4579.8	4933.3	4772.0	4735.0	4659.9
50°	4503.7	4471.9	4445.1	4686.7	4783.3	5271.5	5431.8	5662.0	5496.6	5694.9	5791.5
55°	4590.1	4558.2	4633.2	4810.0	5093.7	5523.3	6000.2	6091.6	6145.1	5780.2	5823.4
60°	5168.7	5185.1	5281.7	5512.0	5871.7	6353.7	7223.2	8113.3	9823.5	7308.5	6955.0
62.5°	5469.8	5469.8	5656.9	6075.2	6386.6	6793.6	7785.4	9250.0	12429.9	8751.5	7732.0
65°	5630.2	5673.3	6070.1	6810.1	6960.1	7158.5	8284.9	10134.9	15095.0	10268.5	8445.2
67.5°	5651.7	5764.8	6252.0	7485.3	7780.3	7458.6	8654.9	10450.4	15807.2	11378.5	8874.9
70°	5705.2	5823.4	6230.4	7656.9	8241.8	7619.9	8686.8	10102.0	13925.4	11437.1	8778.2
72.5°	5641.5	5598.3	6026.9	7110.2	8225.3	7405.1	8080.4	8998.2	11630.3	10306.6	8215.0
75°	4708.2	4643.5	5131.7	5888.1	6590.1	6370.2	6874.8	7480.2	8579.9	8375.4	6831.6
77.5°	3131.6	3308.4	3743.2	4053.6	4638.4	4638.4	5110.1	5110.1	5099.8	4991.9	4456.4
80°	1415.2	1576.6	1619.8	1941.5	2176.8	2413.2	2573.6	2445.1	2439.9	2182.0	2021.6
82.5°	665.0	718.4	681.4	804.7	948.6	1008.2	1072.0	1023.7	938.4	890.1	873.6
85°	321.7	332.0	300.1	338.1	391.6	401.9	428.6	413.2	375.1	396.7	423.4
87.5°	118.2	118.2	128.5	139.8	144.9	144.9	155.2	171.6	155.2	144.9	144.9
90°	85.3	91.5	91.5	96.6	96.6	101.7	113.1	123.3	118.2	101.7	101.7
95°	75.0	64.8	64.8	75.0	80.2	75.0	96.6	106.9	139.8	85.3	85.3
105°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
115°	0.0	5.1	5.1	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
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	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°	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2	933.2
5°	921.9	933.2	928.1	916.8	900.3	900.3	895.2	884.9	890.1	890.1
15°	1538.6	1598.2	1608.5	1560.2	1538.6	1469.7	1415.2	1405.0	1373.1	1361.8
25°	2113.1	2069.9	1978.5	1908.6	1881.9	1871.6	1833.6	1812.0	1823.3	1844.9
35°	2933.3	2863.4	2766.8	2643.4	2638.3	2578.7	2558.1	2546.8	2552.0	2541.7
45°	4633.2	4579.8	4305.4	4198.5	4058.7	3995.0	3812.0	3844.9	3951.8	3935.4
50°	5785.4	5613.7	4997.1	5008.4	4670.2	4466.7	4343.4	4113.2	4113.2	3925.1
55°	5839.8	5544.9	5163.6	4976.5	4831.6	4643.5	4584.9	4558.2	4531.5	4536.6
60°	6691.9	6101.9	5716.5	5421.5	5196.4	5073.1	4976.5	4868.6	4665.1	4503.7
62.5°	7045.4	6273.6	5930.3	5630.2	5394.8	5206.7	5105.0	4997.1	4338.2	4139.9
65°	7330.1	6391.7	6016.6	5688.7	5490.4	5286.9	5158.4	4815.1	3876.8	3678.4
67.5°	7443.2	6488.4	5995.0	5694.9	5480.1	5313.6	5206.7	4300.2	3346.4	3153.2
70°	7362.0	6477.1	5983.7	5688.7	5324.9	5163.6	4778.1	3608.5	2771.9	2573.6
72.5°	6890.2	5995.0	5469.8	5066.9	4691.8	4440.0	3860.3	2745.2	2182.0	2080.2
75°	5968.3	5051.5	4648.6	4225.2	3935.4	3565.4	3008.3	2150.1	1850.0	1855.1
77.5°	4048.4	3501.6	3308.4	2943.6	2708.2	2353.6	1968.2	1523.2	1431.7	1426.6
80°	1994.9	1791.4	1716.4	1426.6	1298.1	1066.8	938.4	846.9	804.7	804.7
82.5°	868.5	841.7	836.6	788.3	771.9	696.8	626.9	589.9	589.9	589.9
85°	418.3	408.0	455.3	503.6	573.5	563.2	455.3	370.0	348.4	343.3
87.5°	128.5	113.1	106.9	91.5	85.3	85.3	80.2	69.9	64.8	64.8
90°	91.5	75.0	64.8	53.4	53.4	53.4	48.3	43.2	43.2	43.2
95°	64.8	43.2	43.2	31.9	31.9	10.3	31.9	31.9	31.9	21.6
105°	10.3	10.3	10.3	10.3	5.1	10.3	10.3	10.3	10.3	10.3
115°	0.0	0.0	5.1	0.0	5.1	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
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
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	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)