

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_350MP

Luminaire Tested: **GMX35PXX3DF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765579_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX35PXX3DF
Description: 400W MH TYPE III AREA
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 25790.7 lumens
Efficiency: 78.2%
Efficacy: 65.0 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

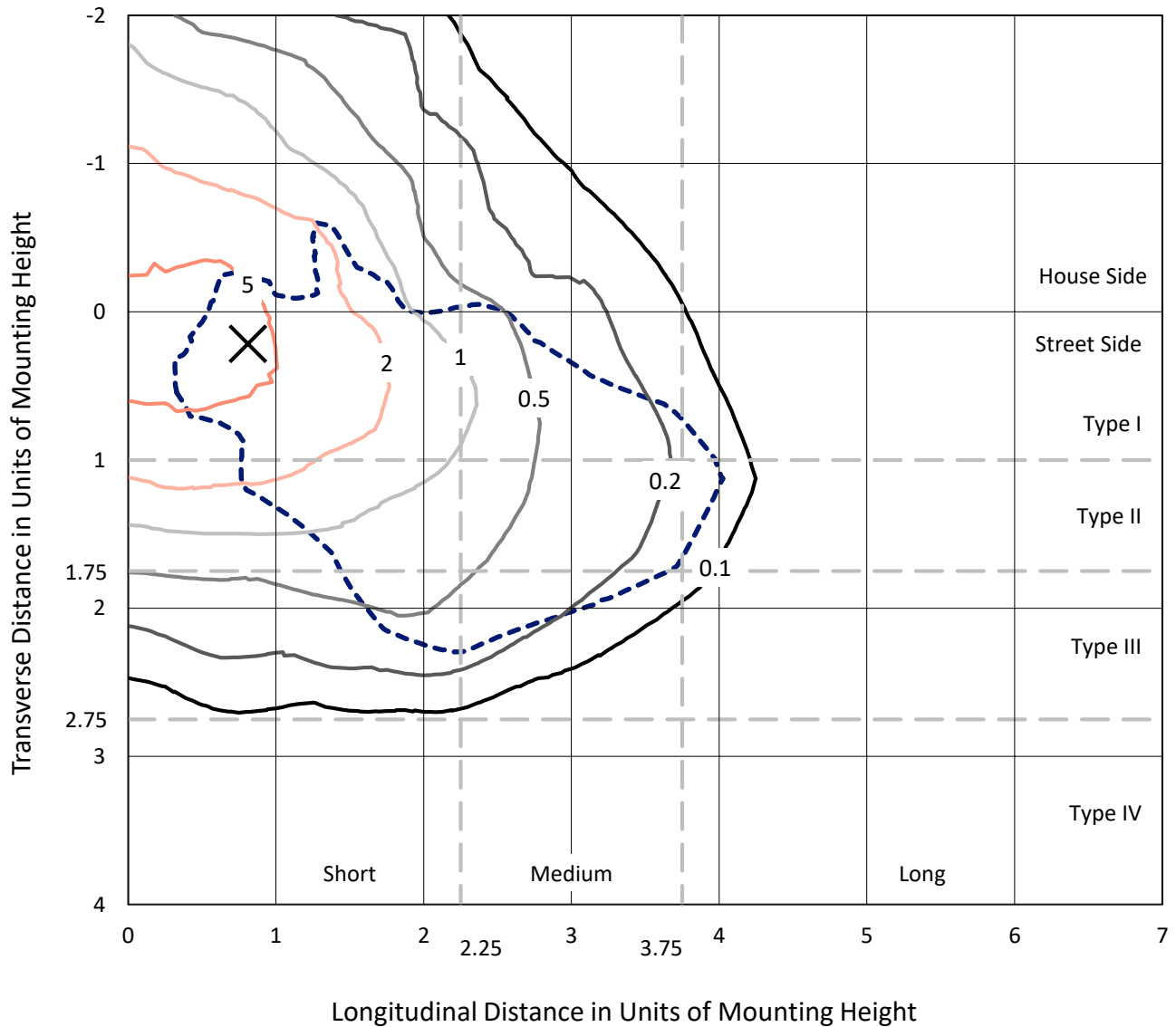
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

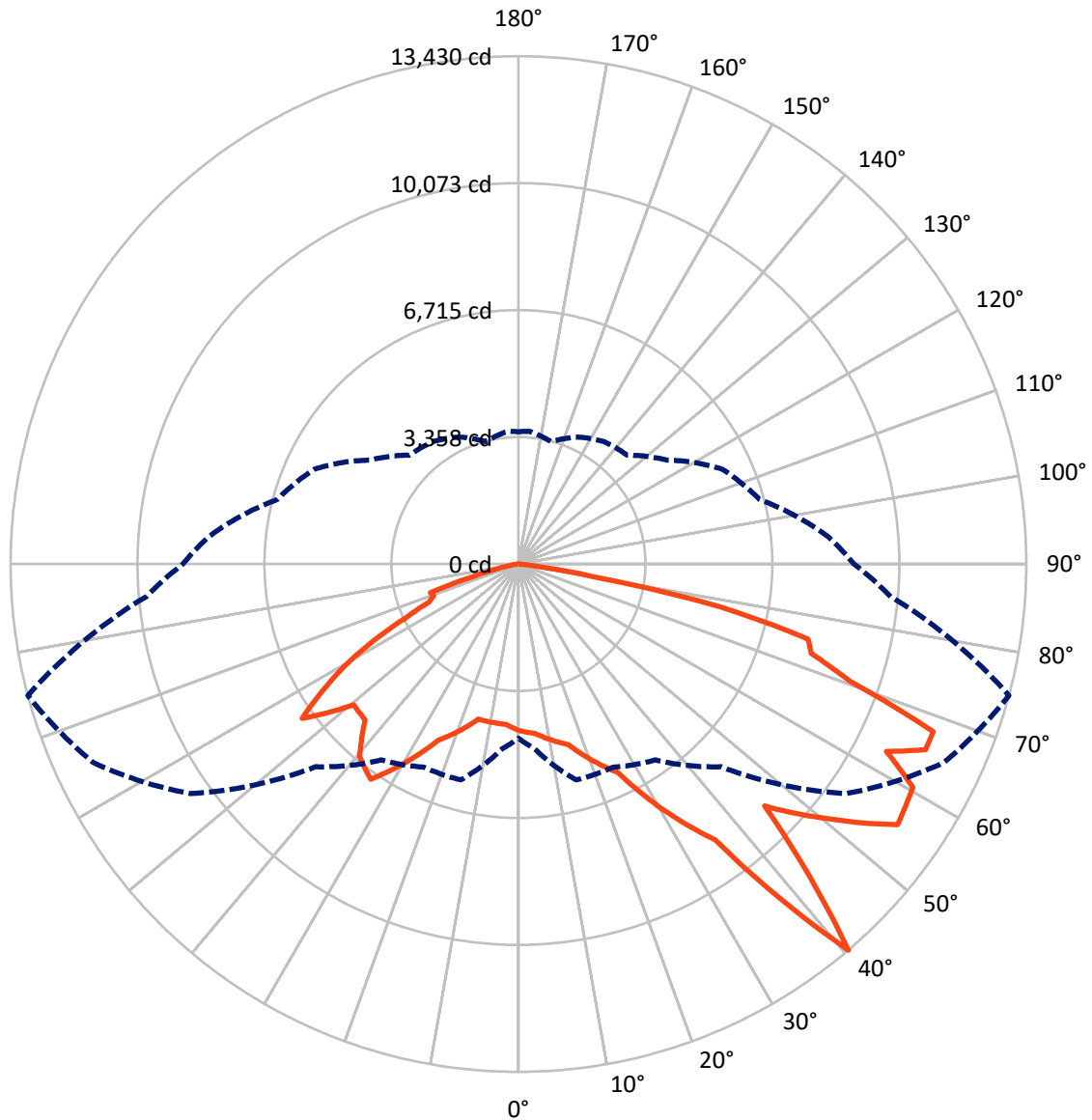
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 40-Deg Vertical

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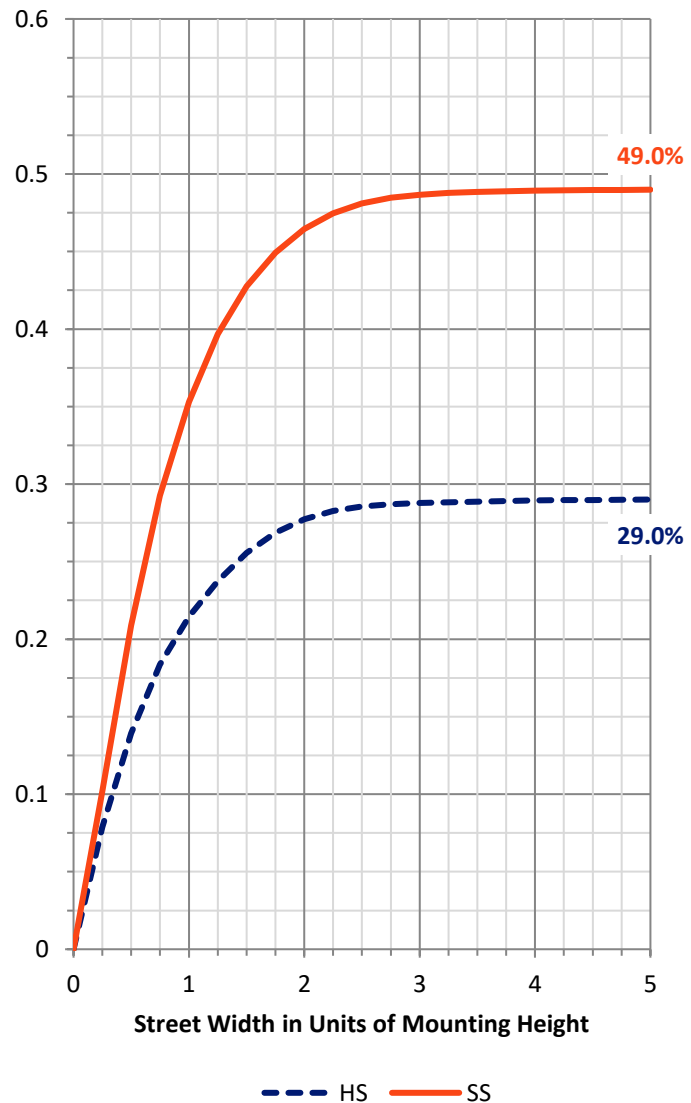
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9612.9	53.1	9666.0
	% Lamp	29.1	0.2	29.3
Street Side	Lumens	16124.6	0.0	16124.6
	% Lamp	48.9	0.0	48.9
Total	Lumens	25737.5	53.1	25790.7
	% Lamp	78.0	0.2	78.2

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	424.9	1.6	1.3
10°-20°	1323.7	5.1	4.0
20°-30°	2434.2	9.4	7.4
30°-40°	3894.0	15.1	11.8
40°-50°	4671.8	18.1	14.2
50°-60°	5639.2	21.9	17.1
60°-70°	4997.1	19.4	15.1
70°-80°	2275.5	8.8	6.9
80°-90°	105.8	0.4	0.3
90°-100°	19.3	0.1	0.1
100°-110°	18.1	0.1	0.1
110°-120°	12.2	0.0	0.0
120°-130°	3.6	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°	25737.5	99.8	78.0
0°-180°	25790.7	100.0	78.2

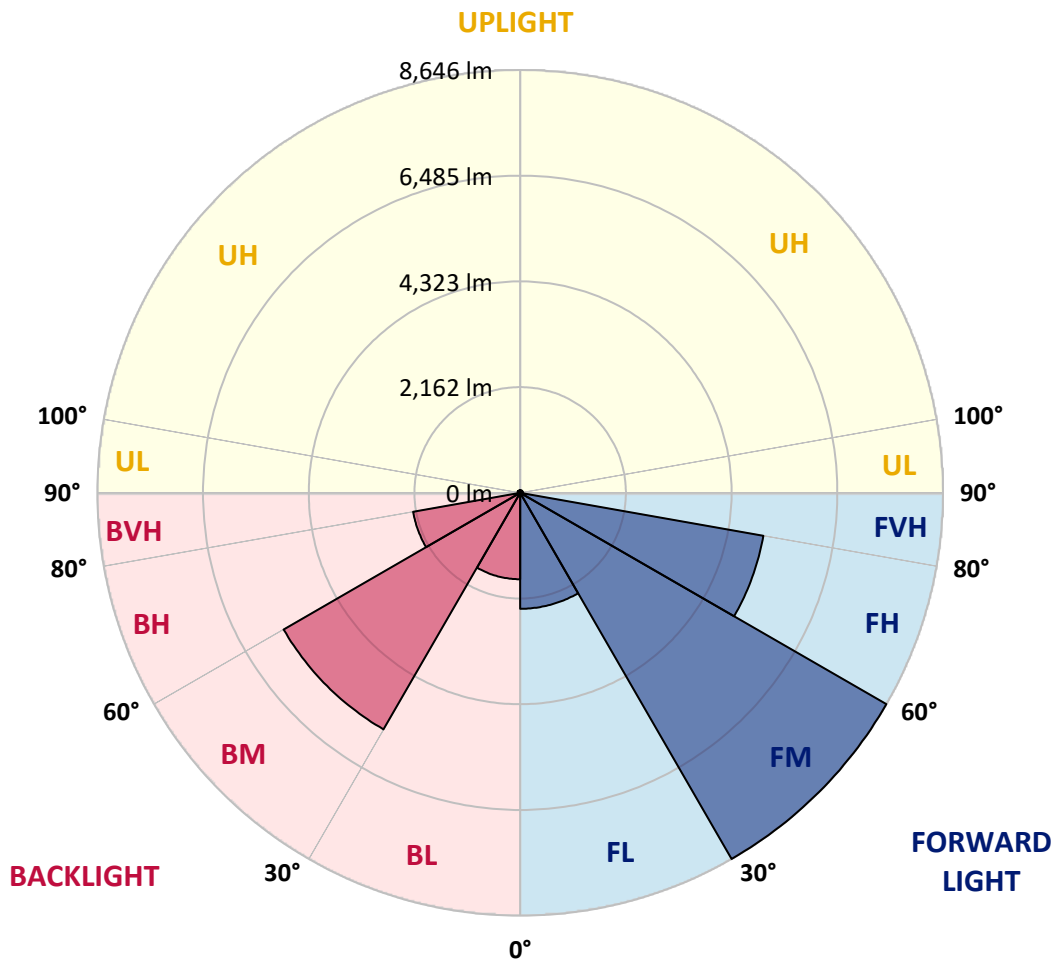


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2371.5	7.2			
FM (30°-60°)	8646.0	26.2			
FH (60°-80°)	5049.3	15.3			G3/7500
FVH (80°-90°)	66.0	0.2			G1/100
BL (0°-30°)	1767.4	5.4	B3/2500		
BM (30°-60°)	5586.1	16.9	B4/8500		
BH (60°-80°)	2223.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	39.9	0.1			G1/100
UL (90°-100°)	19.3	0.1		U2/50	
UH (100°-180°)	53.1	0.2		U3/500	
Trapped Light	7209.3	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°	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7
5°	5069.1	5003.0	4939.0	4884.0	4822.9	4736.9	4683.8	4588.8	4499.7	4425.7	4379.7
15°	5729.5	5677.4	5618.4	5660.4	5614.4	5442.3	5353.2	5196.1	4958.0	4695.8	4565.8
25°	5617.4	5342.2	5500.3	5648.4	5753.5	6008.6	6161.7	6254.8	6107.7	5780.5	5560.4
35°	4588.8	4729.9	5337.2	5400.3	7033.3	9159.6	8744.3	9271.6	8957.4	8078.9	7962.8
40°	4609.8	4901.0	5910.6	5926.6	6325.8	7581.6	10584.4	12415.5	13430.1	9879.0	8875.4
45°	4432.7	4752.9	5901.6	5917.6	5926.6	6677.0	7723.7	9814.9	9128.5	7721.7	7221.4
50°	4064.5	4143.5	5231.2	5698.5	6011.6	6383.9	8073.9	10310.2	10577.4	8466.1	6984.2
55°	3331.0	3495.1	4256.6	5280.2	6571.0	8202.0	9773.9	12938.8	12165.4	9729.9	7505.5
60°	2657.6	2740.7	3254.0	4198.5	5828.5	7555.6	8543.2	12396.5	11985.3	9533.8	7336.4
62.5°	2135.3	2177.3	2801.7	3479.1	5527.3	7406.5	8040.9	11135.7	10917.6	8382.1	6169.7
65°	1550.9	1711.0	2538.5	2968.8	5326.2	7302.4	8511.2	10700.5	11830.2	8225.0	6434.9
67.5°	1247.8	1372.8	2254.4	2672.6	5143.1	8284.0	9215.6	11000.7	11832.2	9252.6	7171.3
70°	892.5	982.6	1772.1	2139.3	4385.7	9514.8	10102.1	10476.3	9305.6	6646.0	5329.2
72.5°	590.4	583.4	862.5	1243.8	2787.7	6961.2	8726.3	8965.4	8098.9	5653.4	5035.1
75°	243.1	237.1	291.2	419.3	1167.7	2427.5	5626.4	8049.9	7908.8	4915.0	3856.3
77.5°	125.1	125.1	120.1	170.1	346.2	837.5	1763.1	4730.9	5458.3	2425.5	1749.1
80°	63.0	63.0	59.0	85.1	159.1	309.2	565.3	1736.1	1950.2	800.5	539.3
82.5°	26.0	21.0	22.0	31.0	70.0	119.1	163.1	317.2	344.2	219.1	140.1
85°	0.0	0.0	0.0	0.0	16.0	37.0	40.0	55.0	65.0	50.0	27.0
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°	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7	4411.7
5°	4332.6	4252.6	4188.5	4121.5	4061.5	4036.4	4017.4	4023.4	4023.4	4019.4
15°	4464.7	4236.6	4049.5	3886.4	3717.3	3581.2	3472.1	3389.1	3319.0	3318.0
25°	5413.3	5121.1	4798.9	4471.7	3963.4	3598.2	3612.2	4239.6	4085.5	3965.4
35°	7560.6	6904.2	6306.8	5266.2	4522.7	4308.6	3644.2	3705.2	3620.2	3438.1
40°	8229.0	6599.0	5943.6	4789.9	4068.5	3952.4	3705.2	3349.0	3517.1	3500.1
45°	6427.9	5780.5	5080.1	4357.6	4031.4	3689.2	3482.1	3499.1	3898.4	4019.4
50°	6055.7	5728.5	5288.2	4965.0	4301.6	3722.3	3541.1	3672.2	4351.6	4338.6
55°	6796.1	7028.3	6732.1	4857.9	4023.4	3905.4	4434.7	4699.8	4649.8	4852.9
60°	6871.2	5361.2	4914.0	4232.6	3761.3	4409.7	4209.6	3665.2	4523.7	5672.4
62.5°	5313.2	4366.6	4411.7	3815.3	3730.3	4176.5	3689.2	3329.0	4194.5	5142.1
65°	4630.8	3292.0	3975.4	3286.0	3563.2	3632.2	3068.9	2954.8	3589.2	4184.5
67.5°	4013.4	2567.6	2974.8	2181.3	3117.9	2354.4	2068.3	2131.3	2130.3	2620.6
70°	3077.9	2395.5	2331.4	1939.2	2732.7	1588.0	1209.7	1020.6	968.6	1023.6
72.5°	4175.5	2451.5	1665.0	1427.9	1160.7	773.5	596.4	543.3	558.3	553.3
75°	3031.8	1238.8	797.5	716.4	470.3	301.2	343.2	445.3	373.2	383.2
77.5°	1320.8	603.4	322.2	394.2	219.1	168.1	222.1	273.2	261.2	323.2
80°	468.3	295.2	162.1	263.2	121.1	90.1	168.1	157.1	107.1	123.1
82.5°	153.1	123.1	72.0	65.0	61.0	50.0	143.1	129.1	44.0	50.0
85°	30.0	31.0	17.0	25.0	26.0	14.0	128.1	120.1	38.0	16.0
87.5°	0.0	0.0	0.0	0.0	4.0	1.0	113.1	125.1	76.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	104.1	110.1	113.1	3.0
95°	0.0	0.0	5.0	0.0	1.0	1.0	106.1	124.1	100.1	60.0
105°	0.0	0.0	0.0	1.0	3.0	3.0	99.1	133.1	68.0	70.0
115°	0.0	0.0	0.0	3.0	7.0	8.0	60.0	137.1	72.0	73.0
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
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)