

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: **GMX35PXX1DF**

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: GMX35PXX1DF
Description: 400W MH TYPE I AREA
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 21562.4 lumens
Efficiency: 65.3%
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')
IES Classification: Type II - Medium - Cutoff
BUG Rating: B4 - U2 - G4

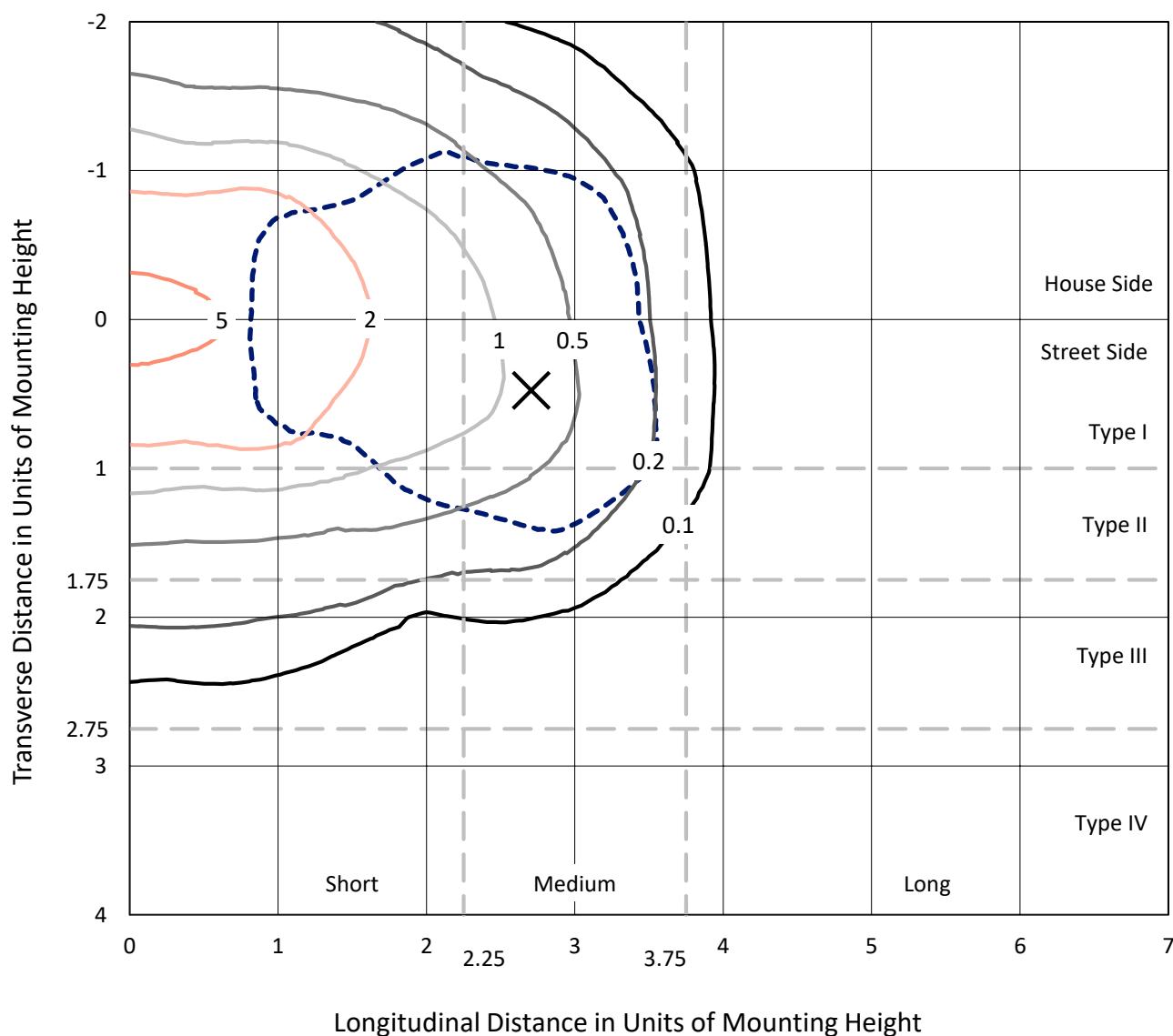
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 765579_350MP
 CATALOG NUMBER: GMX35PXX1DF

Iso-Footcandle Lines of Horizontal Illumination

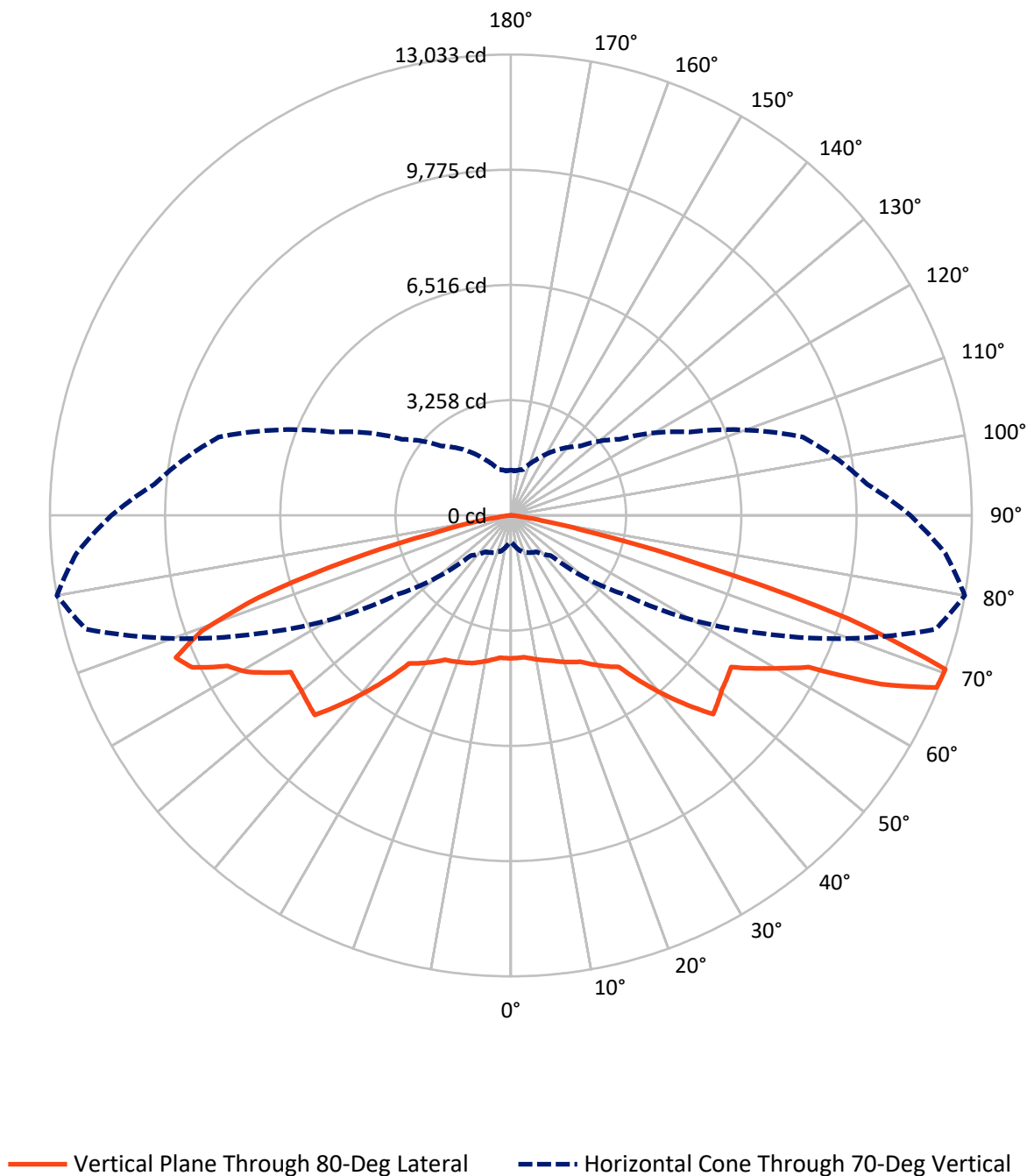
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - Cutoff

REPORT NUMBER: 765579_350MP
CATALOG NUMBER: GMX35PXX1DF

Luminous Intensity Polar Plot



REPORT NUMBER: 765579_350MP

CATALOG NUMBER: GMX35PXX1DF

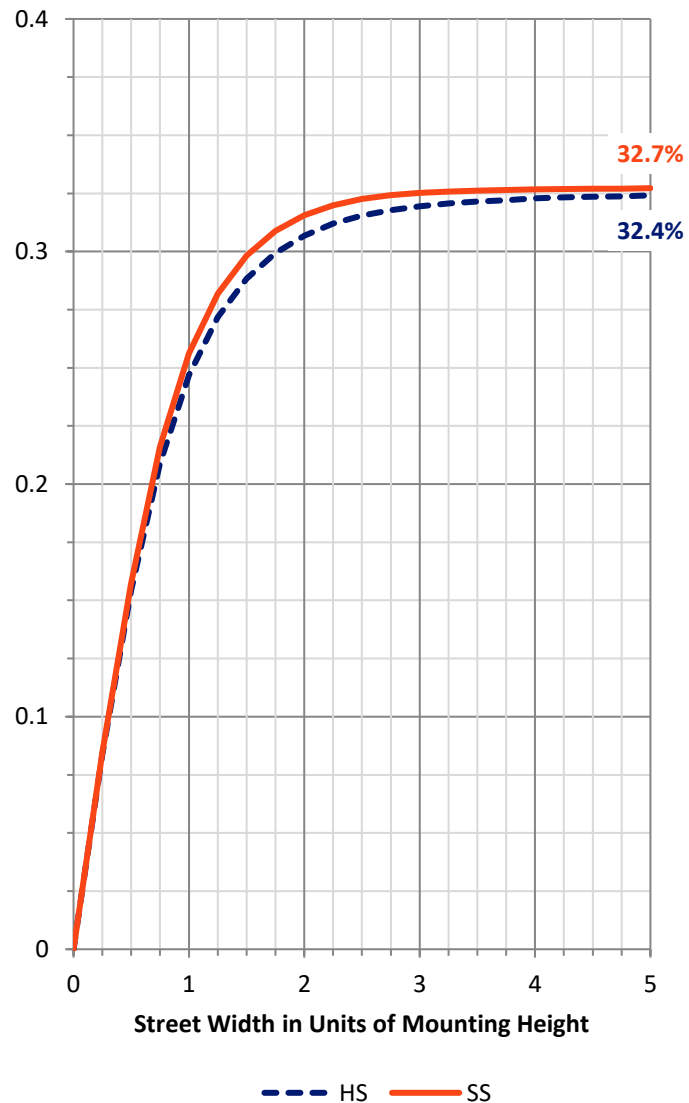
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10741.6	31.7	10773.4
	% Lamp	32.6	0.1	32.6
Street Side	Lumens	10780.4	8.6	10789.0
	% Lamp	32.7	0.0	32.7
Total	Lumens	21522.0	40.3	21562.4
	% Lamp	65.2	0.1	65.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	382.9	1.8	1.2
10°-20°	1117.7	5.2	3.4
20°-30°	1817.1	8.4	5.5
30°-40°	2683.5	12.4	8.1
40°-50°	3731.2	17.3	11.3
50°-60°	4341.0	20.1	13.2
60°-70°	4863.1	22.6	14.7
70°-80°	2390.0	11.1	7.2
80°-90°	159.0	0.7	0.5
90°-100°	17.9	0.1	0.1
100°-110°	13.8	0.1	0.0
110°-120°	7.3	0.0	0.0
120°-130°	1.8	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°	21522.0	99.8	65.2
0°-180°	21562.4	100.0	65.3

Coefficient of Utilization



REPORT NUMBER: 765579_350MP

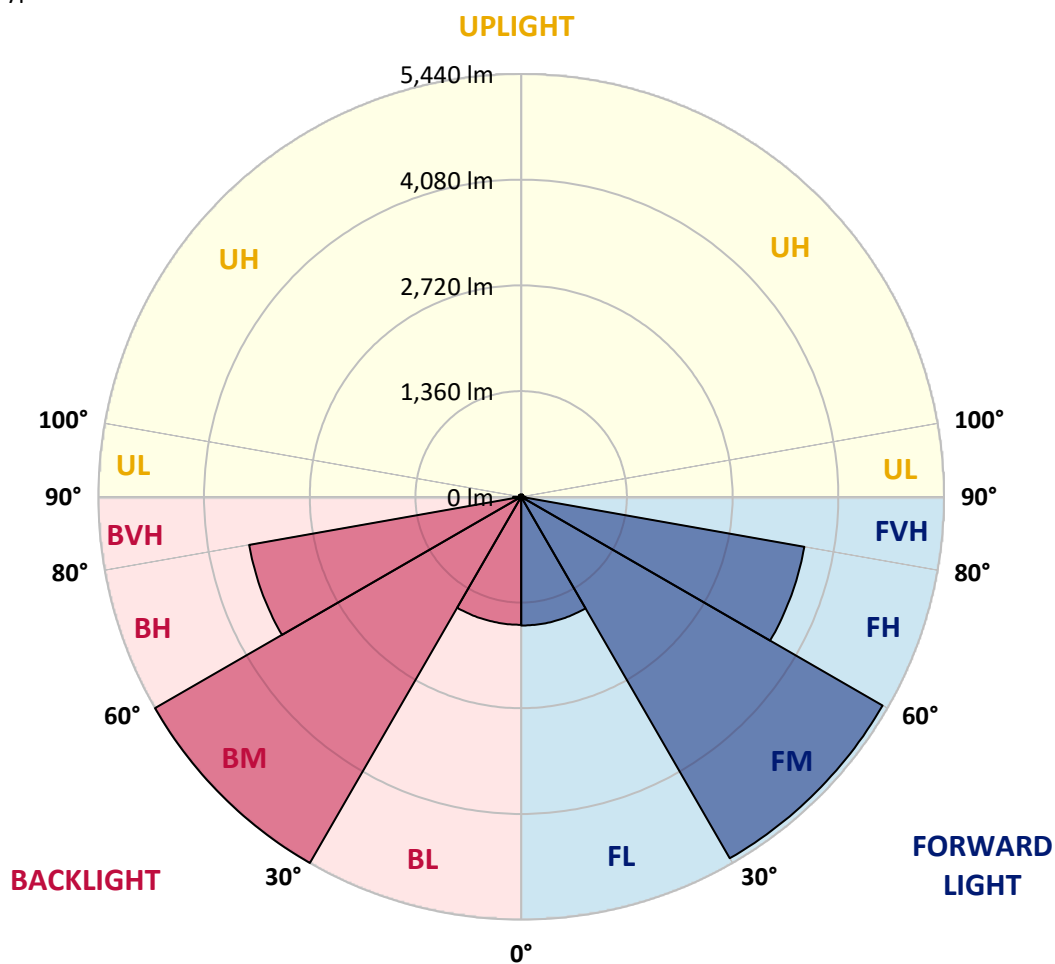
CATALOG NUMBER: GMX35PXX1DF

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.1	5.0			
FM	(30°-60°)	5369.1	16.3			
FH	(60°-80°)	3699.5	11.2			G2/5000
FVH	(80°-90°)	56.8	0.2			G1/100
BL	(0°-30°)	1646.8	5.0	B3/2500		
BM	(30°-60°)	5439.9	16.5	B4/8500		
BH	(60°-80°)	3553.6	10.8	B4/5000		G4/5000
BVH	(80°-90°)	102.2	0.3			G2/225
UL	(90°-100°)	17.9	0.1		U2/50	
UH	(100°-180°)	31.7	0.1		U2/50	
Trapped Light		11437.6	34.7			

BUG Rating: B4-U2-G4

Type II Medium





REPORT NUMBER: 765579_350MP
CATALOG NUMBER: GMX35PXX1DF

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4
5°	4038.4	4022.4	4006.4	4008.4	3988.4	3995.4	4008.4	4019.4	4036.4	4025.4	4040.4
15°	3620.2	3586.2	3616.2	3674.2	3795.3	3886.4	3996.4	4107.5	4215.6	4261.6	4300.6
25°	3352.0	3358.0	3491.1	3534.1	3572.2	3702.2	3970.4	4300.6	4552.8	4584.8	4614.8
35°	3011.8	3154.9	3206.9	3416.1	3941.4	4150.5	4125.5	4510.7	5087.1	5263.2	5364.3
45°	2524.5	2558.6	2625.6	2807.7	3762.3	5297.2	6276.8	7007.2	7757.7	8021.9	8014.9
50°	2218.3	2221.3	2229.4	2551.5	3380.0	5090.1	6746.1	7005.2	7531.6	7738.7	7727.7
55°	1924.2	1920.2	1971.2	2388.4	3036.8	4507.7	6385.9	6798.1	7346.5	7564.6	7628.6
60°	1746.1	1738.1	1849.1	2166.3	2697.6	3752.3	5605.4	7061.3	8365.1	8768.3	8997.5
62.5°	1605.0	1626.0	1750.1	1995.2	2535.5	3455.1	5556.4	7469.5	8983.4	9451.7	9335.7
65°	1419.9	1466.9	1631.0	1824.1	2329.4	3302.0	5569.4	8297.0	10943.6	11509.0	11123.7
67.5°	1174.7	1117.7	1394.8	1644.0	2008.2	2975.8	5150.1	8389.1	12321.5	12988.9	12445.5
70°	743.5	818.5	1037.6	1160.7	1257.8	1607.0	3872.3	7912.8	12432.5	13032.9	12332.5
72.5°	412.2	423.3	540.3	506.3	565.3	1096.7	3449.1	7138.3	9793.9	9992.1	8718.3
75°	185.1	175.1	223.1	218.1	299.2	715.4	2426.5	4134.5	6212.8	5480.3	5321.2
77.5°	110.1	110.1	116.1	124.1	183.1	436.3	1278.8	2238.4	2316.4	2329.4	2015.2
80°	73.0	68.0	69.0	73.0	111.1	215.1	487.3	651.4	1021.6	888.5	942.6
82.5°	39.0	40.0	33.0	46.0	70.0	99.1	163.1	265.2	283.2	297.2	282.2
85°	21.0	22.0	20.0	18.0	27.0	38.0	56.0	87.1	117.1	125.1	119.1
87.5°	10.0	10.0	8.0	8.0	8.0	10.0	14.0	16.0	25.0	26.0	35.0
90°	10.0	9.0	8.0	5.0	4.0	3.0	1.0	3.0	3.0	3.0	3.0
95°	10.0	12.0	14.0	18.0	23.0	10.0	3.0	1.0	1.0	1.0	0.0
105°	8.0	9.0	8.0	5.0	4.0	4.0	3.0	0.0	0.0	0.0	0.0
115°	10.0	9.0	9.0	8.0	7.0	5.0	4.0	1.0	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



REPORT NUMBER: 765579_350MP
CATALOG NUMBER: GMX35PXX1DF

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4	4039.4
5°	4046.5	4027.4	4046.5	4047.5	4029.4	4022.4	4014.4	4017.4	4032.4	4038.4	4030.4
15°	4325.6	4322.6	4302.6	4177.5	4043.5	3939.4	3825.3	3800.3	3749.3	3725.3	3725.3
25°	4592.8	4546.8	4424.7	4209.6	3956.4	3689.2	3469.1	3354.0	3297.0	3294.0	3263.0
35°	5342.2	5160.1	4997.0	4583.8	4233.6	3945.4	3607.2	3303.0	3193.9	2916.8	2852.7
45°	8052.9	8087.9	7735.7	7021.3	6077.7	4977.0	3804.3	3011.8	2744.7	2779.7	2850.7
50°	7702.7	7722.7	7744.7	7359.5	6560.0	5137.1	3693.2	2803.7	2517.5	2695.6	2777.7
55°	7666.6	7727.7	7539.6	6994.2	6102.7	4734.9	3444.1	2620.6	2265.4	2378.4	2451.5
60°	9130.5	9040.5	8362.1	6825.1	5563.4	4244.6	3135.9	2398.5	2010.2	2132.3	2171.3
62.5°	9344.7	9481.7	8663.3	6989.2	5436.3	4025.4	2962.8	2291.4	1877.1	1976.2	2036.2
65°	11187.8	10633.4	9331.7	7156.3	5335.2	3839.3	2702.6	2076.3	1737.1	1821.1	1871.1
67.5°	11758.1	11210.8	9364.7	7066.3	5099.1	3538.1	2547.5	1908.2	1553.9	1568.0	1544.9
70°	11293.8	10115.1	8551.2	5577.4	3753.3	2774.7	2248.4	1748.1	1342.8	1261.8	1281.8
72.5°	8023.9	8092.9	6870.2	4893.0	2871.7	1665.0	1120.7	1235.7	1114.7	925.6	1004.6
75°	4911.0	4762.9	4928.0	3348.0	2362.4	1154.7	686.4	629.4	578.4	541.3	543.3
77.5°	1935.2	2272.4	2335.4	2217.3	1465.9	810.5	407.2	346.2	352.2	300.2	326.2
80°	933.6	977.6	1201.7	1263.8	907.6	485.3	286.2	213.1	223.1	190.1	180.1
82.5°	365.2	352.2	361.2	410.2	419.3	284.2	171.1	128.1	146.1	129.1	117.1
85°	123.1	151.1	145.1	163.1	130.1	98.1	85.1	78.0	103.1	74.0	60.0
87.5°	23.0	22.0	43.0	25.0	43.0	38.0	43.0	40.0	70.0	44.0	65.0
90°	4.0	3.0	4.0	4.0	5.0	13.0	22.0	26.0	64.0	69.0	123.1
95°	0.0	0.0	0.0	0.0	3.0	12.0	23.0	26.0	87.1	72.0	125.1
105°	0.0	0.0	0.0	1.0	5.0	13.0	18.0	22.0	116.1	34.0	26.0
115°	0.0	0.0	1.0	3.0	5.0	9.0	12.0	14.0	33.0	23.0	26.0
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

(END OF REPORT)