

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: **GMX32PXX1DF**

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: GMX32PXX1DF
Description: 400W MH TYPE I AREA
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 19602.1 lumens
Efficiency: 65.3%
Efficacy: 56.0 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

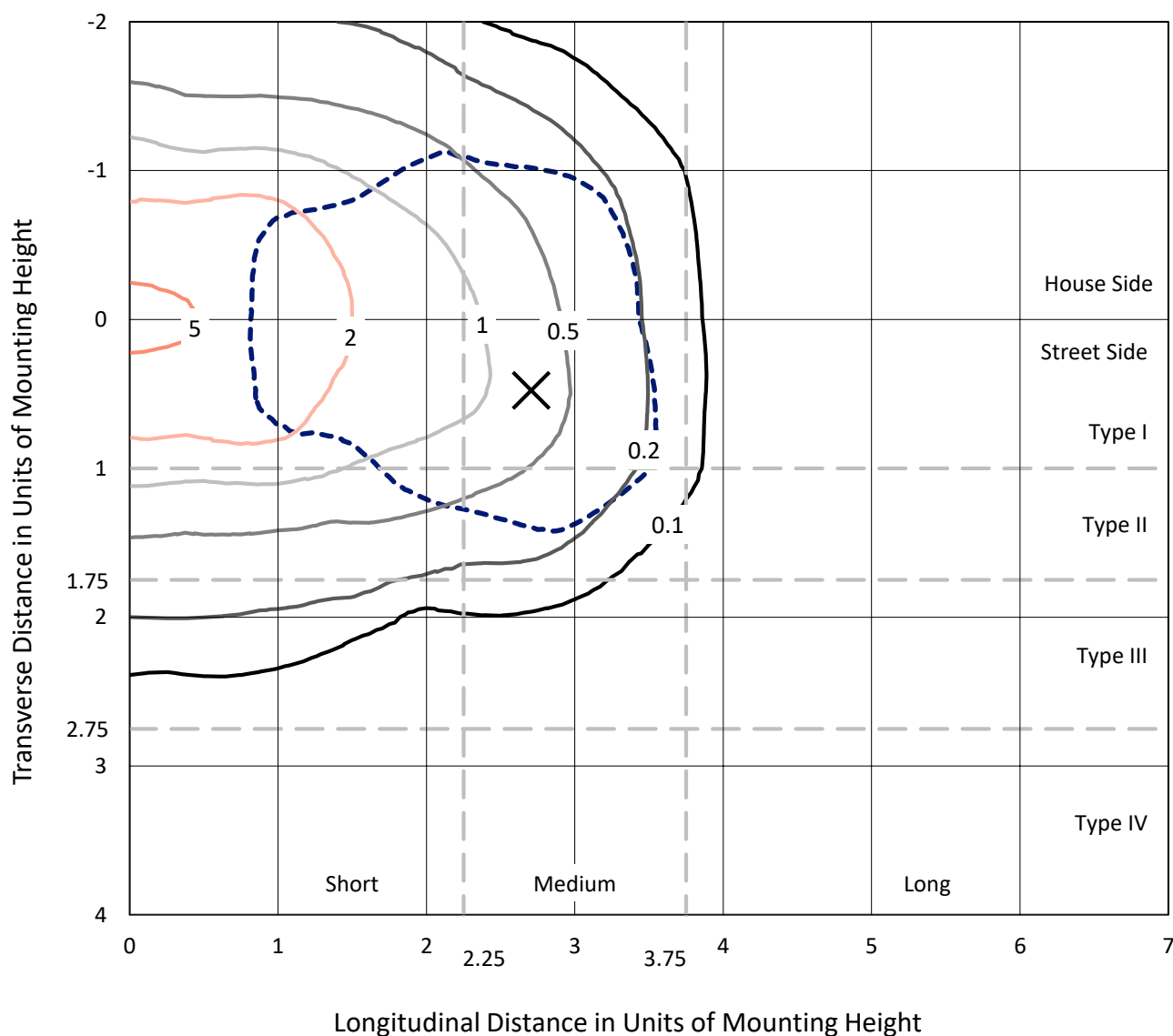
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 765579_320MP
 CATALOG NUMBER: GMX32PXX1DF

Iso-Footcandle Lines of Horizontal Illumination

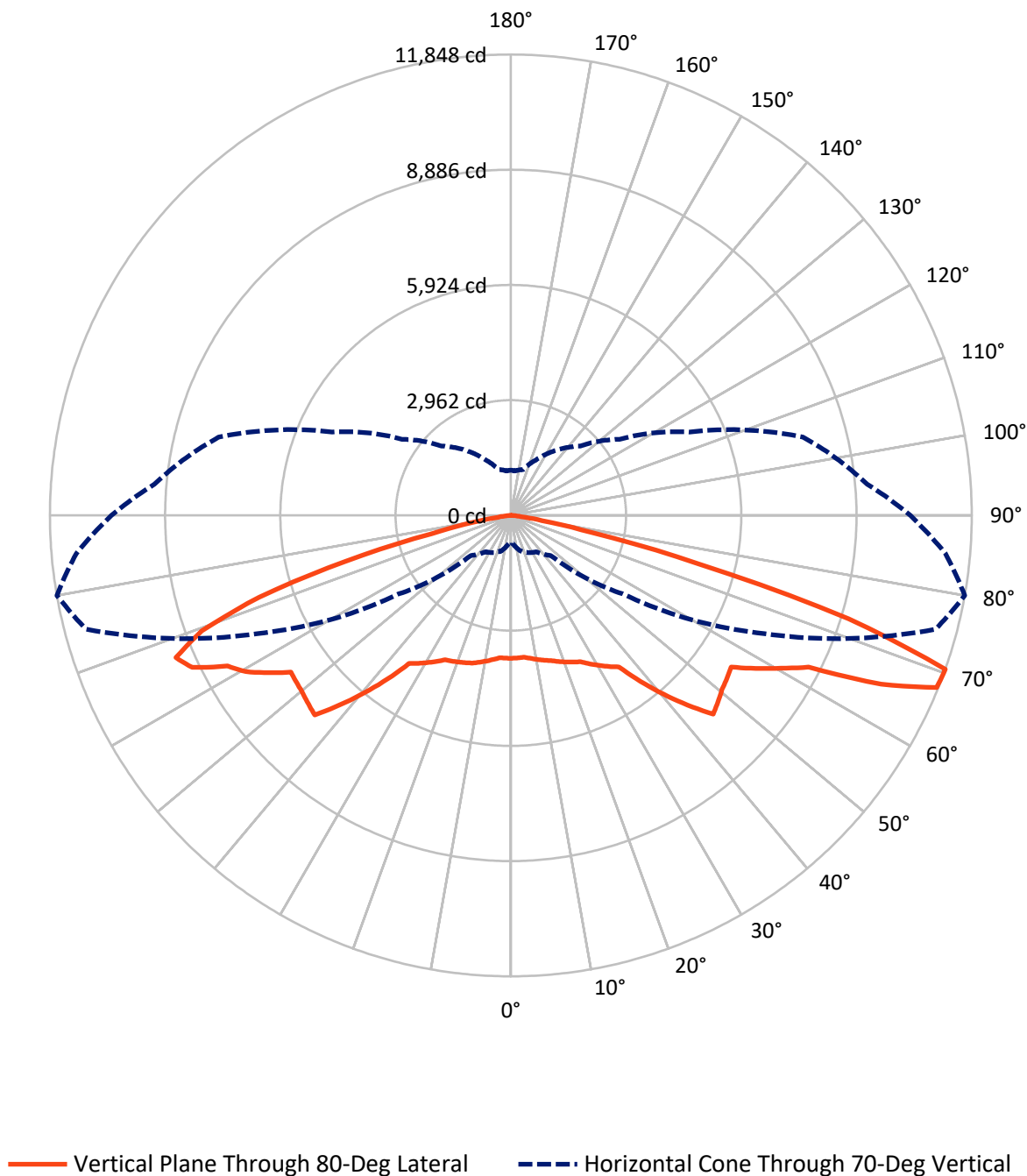
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - Cutoff

REPORT NUMBER: 765579_320MP
CATALOG NUMBER: GMX32PXX1DF

Luminous Intensity Polar Plot



REPORT NUMBER: 765579_320MP

CATALOG NUMBER: GMX32PXX1DF

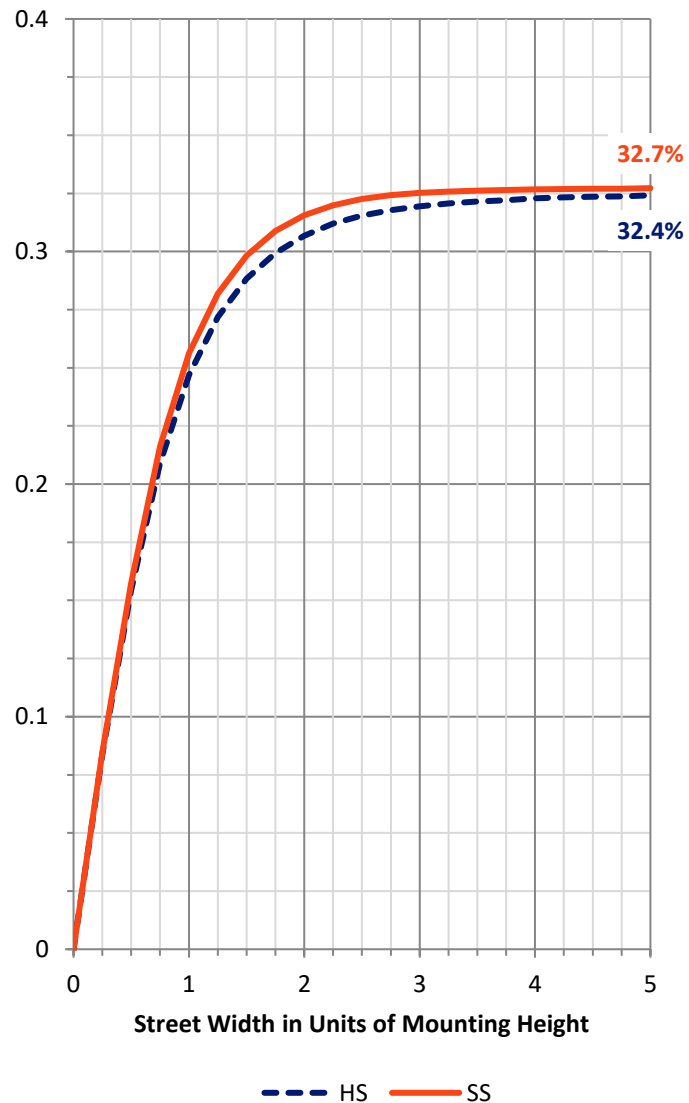
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9765.1	28.8	9794.0
	% Lamp	32.6	0.1	32.6
Street Side	Lumens	9800.4	7.8	9808.2
	% Lamp	32.7	0.0	32.7
Total	Lumens	19565.5	36.6	19602.1
	% Lamp	65.2	0.1	65.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	348.0	1.8	1.2
10°-20°	1016.1	5.2	3.4
20°-30°	1651.9	8.4	5.5
30°-40°	2439.6	12.4	8.1
40°-50°	3392.0	17.3	11.3
50°-60°	3946.3	20.1	13.2
60°-70°	4421.0	22.6	14.7
70°-80°	2172.7	11.1	7.2
80°-90°	144.6	0.7	0.5
90°-100°	16.2	0.1	0.1
100°-110°	12.6	0.1	0.0
110°-120°	6.6	0.0	0.0
120°-130°	1.6	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°	19565.5	99.8	65.2
0°-180°	19602.1	100.0	65.3

Coefficient of Utilization



REPORT NUMBER: 765579_320MP

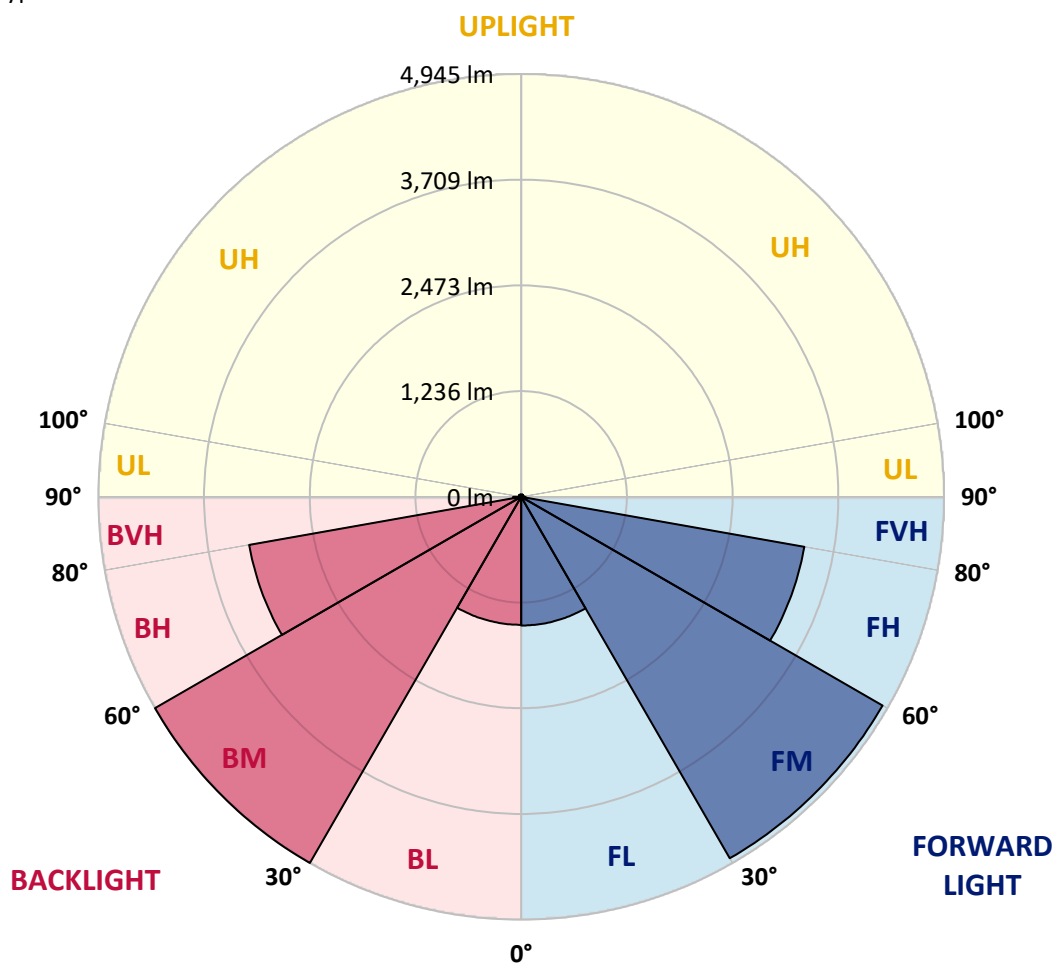
CATALOG NUMBER: GMX32PXX1DF

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1505.6	5.0			
FM	(30°-60°)	4881.0	16.3			
FH	(60°-80°)	3363.2	11.2			G2/5000
FVH	(80°-90°)	51.6	0.2			G1/100
BL	(0°-30°)	1497.1	5.0	B3/2500		
BM	(30°-60°)	4945.4	16.5	B3/5000		
BH	(60°-80°)	3230.6	10.8	B4/5000		G4/5000
BVH	(80°-90°)	92.9	0.3			G1/100
UL	(90°-100°)	16.2	0.1		U2/50	
UH	(100°-180°)	28.8	0.1		U2/50	
Trapped Light		10397.9	34.7			

BUG Rating: B4-U2-G4

Type II Medium





REPORT NUMBER: 765579_320MP
CATALOG NUMBER: GMX32PXX1DF

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2
5°	3671.3	3656.8	3642.2	3644.0	3625.8	3632.2	3644.0	3654.0	3669.5	3659.5	3673.1
15°	3291.1	3260.2	3287.4	3340.2	3450.3	3533.1	3633.1	3734.1	3832.3	3874.2	3909.6
25°	3047.3	3052.8	3173.7	3212.9	3247.4	3365.7	3609.5	3909.6	4138.9	4168.0	4195.3
35°	2738.0	2868.1	2915.4	3105.5	3583.1	3773.2	3750.5	4100.7	4624.6	4784.7	4876.6
45°	2295.0	2326.0	2386.9	2552.5	3420.3	4815.6	5706.2	6370.2	7052.5	7292.6	7286.2
50°	2016.7	2019.4	2026.7	2319.6	3072.8	4627.3	6132.8	6368.4	6846.9	7035.2	7025.2
55°	1749.2	1745.6	1792.0	2171.3	2760.8	4097.9	5805.3	6180.1	6678.6	6876.9	6935.1
60°	1587.3	1580.0	1681.0	1969.4	2452.4	3411.2	5095.8	6419.3	7604.6	7971.2	8179.5
62.5°	1459.1	1478.2	1591.0	1813.8	2305.0	3141.0	5051.2	6790.5	8166.8	8592.5	8487.0
65°	1290.8	1333.5	1482.7	1658.3	2117.6	3001.8	5063.1	7542.8	9948.8	10462.7	10112.5
67.5°	1067.9	1016.1	1268.0	1494.5	1825.7	2705.3	4681.9	7626.4	11201.3	11808.1	11314.1
70°	675.9	744.1	943.3	1055.2	1143.4	1460.9	3520.3	7193.5	11302.3	11848.1	11211.3
72.5°	374.8	384.8	491.2	460.3	513.9	997.0	3135.5	6489.4	8903.6	9083.7	7925.7
75°	168.3	159.2	202.9	198.3	272.0	650.4	2205.9	3758.6	5648.0	4982.1	4837.5
77.5°	100.1	100.1	105.5	112.8	166.5	396.6	1162.5	2034.9	2105.8	2117.6	1832.0
80°	66.4	61.9	62.8	66.4	101.0	195.6	443.0	592.2	928.7	807.8	856.9
82.5°	35.5	36.4	30.0	41.8	63.7	90.1	148.3	241.1	257.4	270.2	256.5
85°	19.1	20.0	18.2	16.4	24.6	34.6	50.9	79.1	106.4	113.7	108.2
87.5°	9.1	9.1	7.3	7.3	7.3	9.1	12.7	14.6	22.7	23.7	31.8
90°	9.1	8.2	7.3	4.5	3.6	2.7	0.9	2.7	2.7	2.7	2.7
95°	9.1	10.9	12.7	16.4	20.9	9.1	2.7	0.9	0.9	0.9	0.0
105°	7.3	8.2	7.3	4.5	3.6	3.6	2.7	0.0	0.0	0.0	0.0
115°	9.1	8.2	8.2	7.3	6.4	4.5	3.6	0.9	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_320MP

CATALOG NUMBER: GMX32PXX1DF

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2	3672.2
5°	3678.6	3661.3	3678.6	3679.5	3663.1	3656.8	3649.5	3652.2	3665.9	3671.3	3664.0
15°	3932.4	3929.7	3911.5	3797.8	3675.9	3581.3	3477.6	3454.8	3408.4	3386.6	3386.6
25°	4175.3	4133.4	4022.4	3826.9	3596.7	3353.9	3153.7	3049.1	2997.3	2994.5	2966.3
35°	4856.6	4691.0	4542.8	4167.1	3848.7	3586.7	3279.3	3002.7	2903.6	2651.6	2593.4
45°	7320.8	7352.6	7032.4	6383.0	5525.2	4524.6	3458.5	2738.0	2495.1	2527.0	2591.6
50°	7002.4	7020.6	7040.6	6690.4	5963.6	4670.1	3357.5	2548.8	2288.7	2450.6	2525.2
55°	6969.7	7025.2	6854.2	6358.4	5547.9	4304.4	3131.0	2382.4	2059.4	2162.2	2228.6
60°	8300.5	8218.6	7601.9	6204.7	5057.6	3858.7	2850.8	2180.4	1827.5	1938.4	1973.9
62.5°	8495.1	8619.8	7875.7	6353.9	4942.1	3659.5	2693.5	2083.1	1706.5	1796.5	1851.1
65°	10170.7	9666.8	8483.3	6505.8	4850.2	3490.3	2456.9	1887.5	1579.1	1655.5	1701.0
67.5°	10689.2	10191.6	8513.3	6423.9	4635.5	3216.5	2315.9	1734.7	1412.7	1425.4	1404.5
70°	10267.1	9195.6	7773.8	5070.3	3412.1	2522.4	2044.0	1589.1	1220.7	1147.1	1165.3
72.5°	7294.4	7357.2	6245.6	4448.2	2610.7	1513.6	1018.8	1123.4	1013.3	841.4	913.3
75°	4464.5	4329.9	4480.0	3043.7	2147.7	1049.7	624.0	572.2	525.8	492.1	493.9
77.5°	1759.2	2065.8	2123.1	2015.8	1332.6	736.8	370.2	314.7	320.2	272.9	296.5
80°	848.7	888.7	1092.5	1148.9	825.0	441.2	260.2	193.8	202.9	172.8	163.7
82.5°	332.0	320.2	328.4	373.0	381.1	258.3	155.5	116.4	132.8	117.3	106.4
85°	111.9	137.4	131.9	148.3	118.3	89.1	77.3	71.0	93.7	67.3	54.6
87.5°	20.9	20.0	39.1	22.7	39.1	34.6	39.1	36.4	63.7	40.0	59.1
90°	3.6	2.7	3.6	3.6	4.5	11.8	20.0	23.7	58.2	62.8	111.9
95°	0.0	0.0	0.0	0.0	2.7	10.9	20.9	23.7	79.1	65.5	113.7
105°	0.0	0.0	0.0	0.9	4.5	11.8	16.4	20.0	105.5	30.9	23.7
115°	0.0	0.0	0.9	2.7	4.5	8.2	10.9	12.7	30.0	20.9	23.7
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)