

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: 766461_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-AS-SG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 766461_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-AS-SG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-SQUARE DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 25329.4 lumens
Efficiency: 68.5%
Efficacy: 63.8 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B5 - U3 - G3

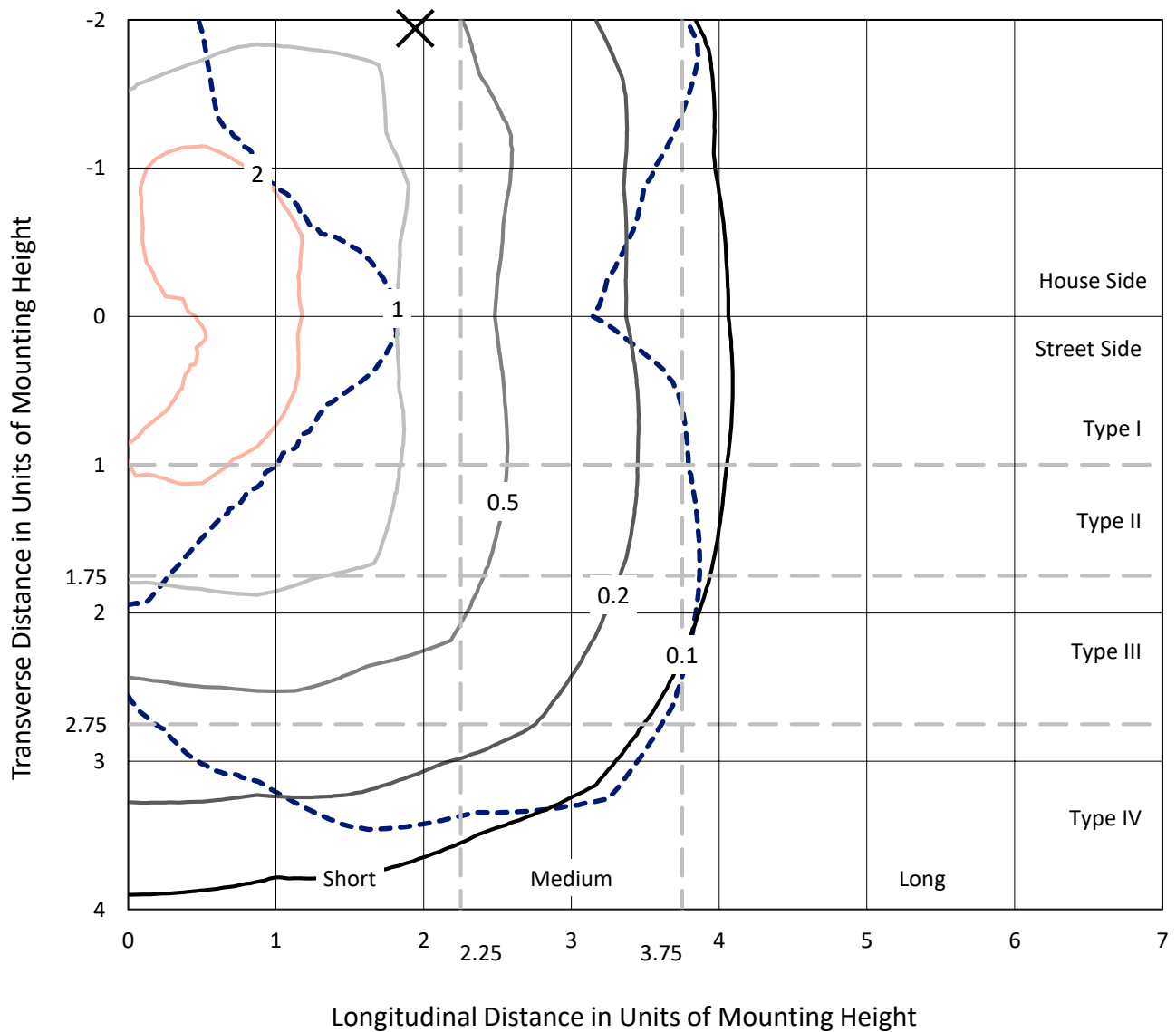
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: 766461_350MP
 CATALOG NUMBER: GSM-XX-350-MP-XX-AS-SG-XX-X

Iso-Footcandle Lines of Horizontal Illumination

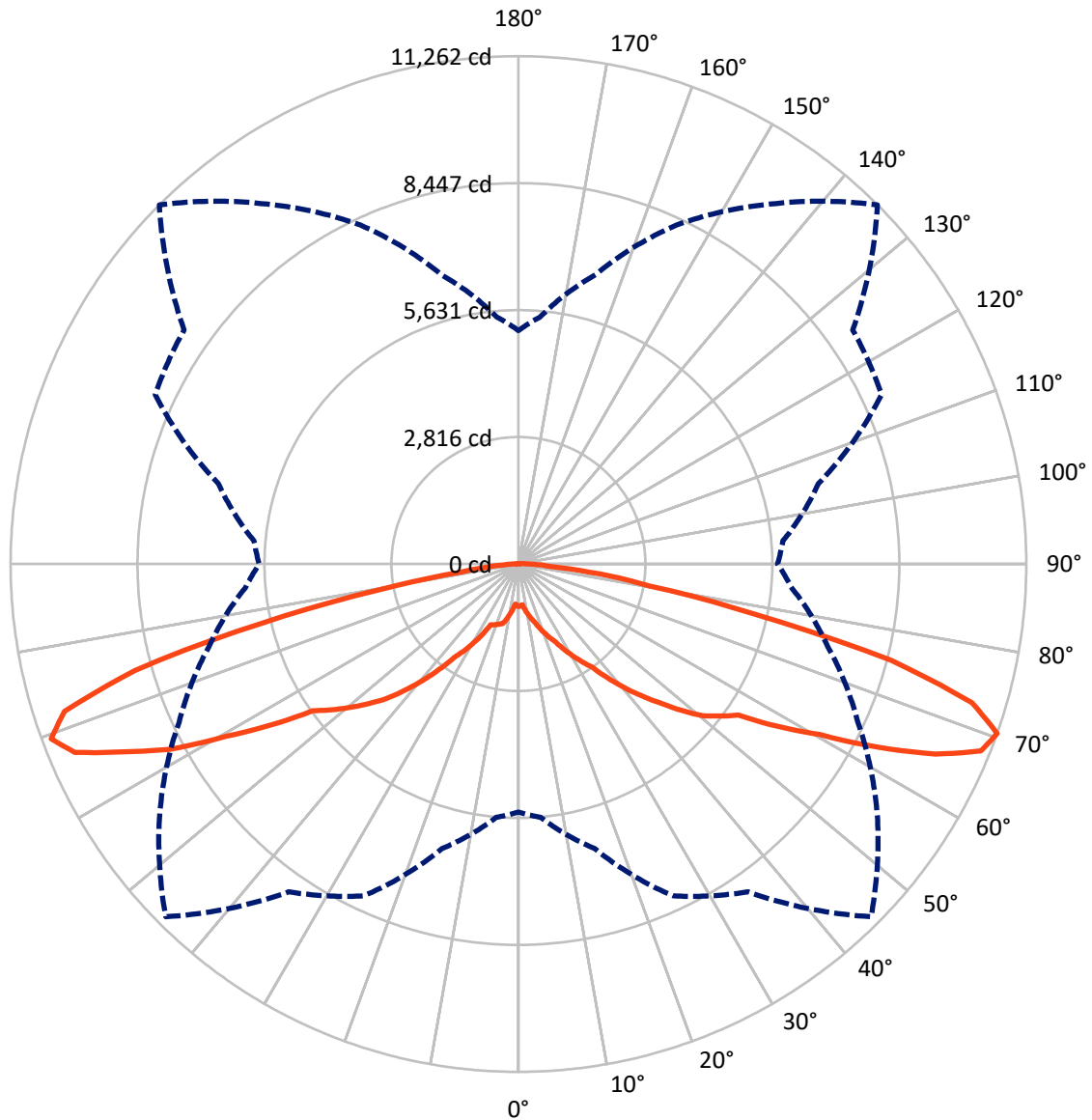
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Cutoff

REPORT NUMBER: 766461_350MP
CATALOG NUMBER: GSM-XX-350-MP-XX-AS-SG-XX-X

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: 766461_350MP
 CATALOG NUMBER: GSM-XX-350-MP-XX-AS-SG-XX-X

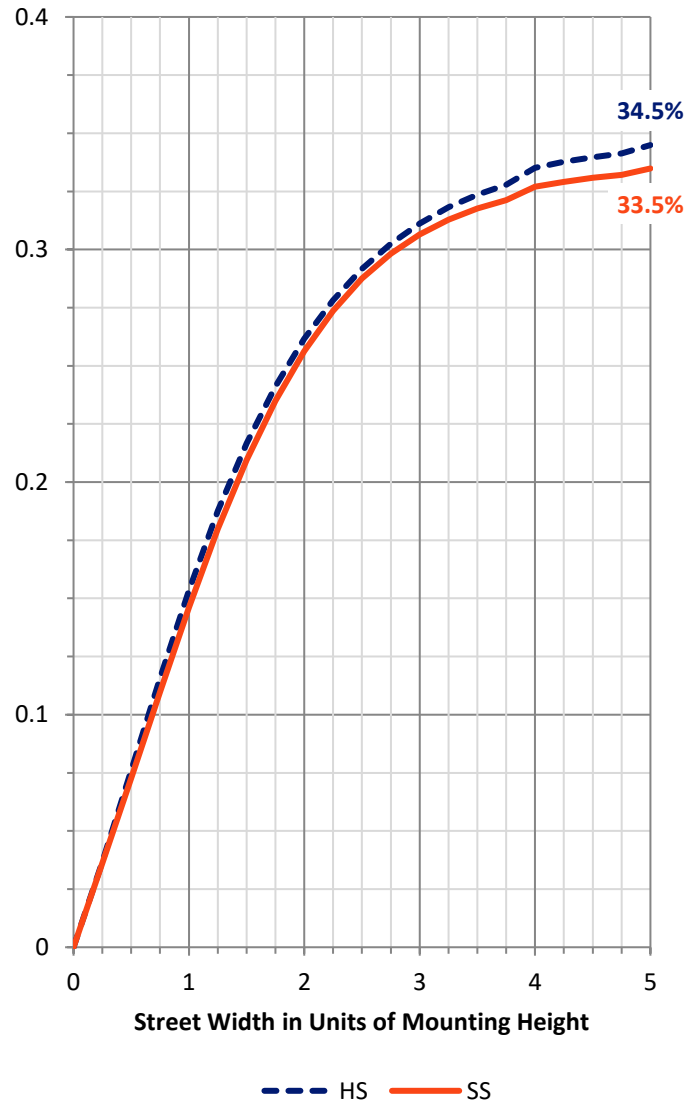
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12769.2	46.2	12815.4
	% Lamp	34.5	0.1	34.6
Street Side	Lumens	12471.0	43.0	12514.0
	% Lamp	33.7	0.1	33.8
Total	Lumens	25240.3	89.1	25329.4
	% Lamp	68.2	0.2	68.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.7	0.4	0.3
10°-20°	360.7	1.4	1.0
20°-30°	807.5	3.2	2.2
30°-40°	1672.2	6.6	4.5
40°-50°	3137.0	12.4	8.5
50°-60°	4810.2	19.0	13.0
60°-70°	7262.1	28.7	19.6
70°-80°	6284.4	24.8	17.0
80°-90°	879.2	3.5	2.4
90°-100°	75.1	0.3	0.2
100°-110°	18.9	0.1	0.1
110°-120°	2.1	0.0	0.0
120°-130°	0.4	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°	25240.3	99.6	68.2
0°-180°	25329.4	100.0	68.5



REPORT NUMBER: 766461_350MP

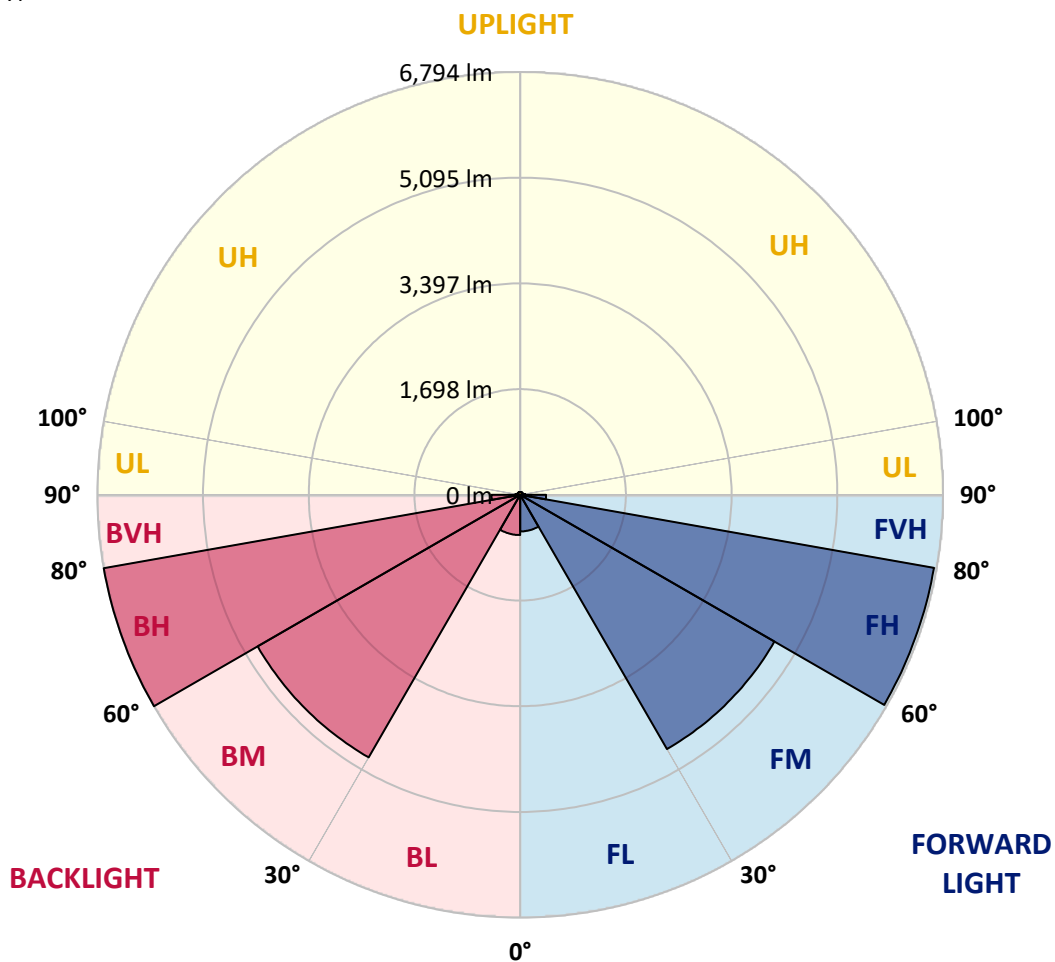
CATALOG NUMBER: GSM-XX-350-MP-XX-AS-SG-XX-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	588.8	1.6			
FM	(30°-60°)	4717.5	12.8			
FH	(60°-80°)	6752.5	18.3			G3/7500
FVH	(80°-90°)	416.7	1.1			G3/500
BL	(0°-30°)	646.8	1.7	B2/1000		
BM	(30°-60°)	4870.4	13.2	B3/5000		
BH	(60°-80°)	6793.9	18.4	B5		G3/7500
BVH	(80°-90°)	462.6	1.3			G3/500
UL	(90°-100°)	75.1	0.2		U3/500	
UH	(100°-180°)	46.2	0.1		U2/50	
Trapped Light		11670.6	31.5			

BUG Rating: B5-U3-G3

Type V Short





REPORT NUMBER: 766461_350MP
 CATALOG NUMBER: GSM-XX-350-MP-XX-AS-SG-XX-X

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4
5°	853.1	854.1	868.5	870.5	888.0	890.1	907.5	919.9	939.4	946.6	942.5
15°	1049.4	1131.6	1198.4	1247.7	1373.1	1359.7	1394.7	1347.4	1329.9	1300.1	1269.3
25°	1273.4	1288.8	1416.3	1386.5	1410.1	1485.1	1539.6	1556.1	1560.2	1634.2	1648.6
35°	2023.7	2137.8	2145.0	2312.5	2325.9	2516.0	2381.4	2431.7	2375.2	2489.3	2437.9
45°	3528.4	3657.9	3730.8	4028.9	3909.7	4188.2	4121.4	4223.1	3981.6	4044.3	4108.0
50°	4463.6	4345.4	4580.8	4983.7	4724.7	4891.2	4930.2	4944.6	4781.2	4531.5	4690.8
55°	4474.9	4483.2	4907.6	5259.1	5445.2	5604.5	5512.0	5388.6	4929.2	4667.1	4759.6
60°	5343.4	5356.8	5852.2	6651.8	7160.5	7533.6	7083.4	6751.5	5755.6	5435.9	5481.1
62.5°	5571.6	5591.1	6236.6	7178.0	7859.4	8749.5	7954.0	7354.8	6203.7	5781.2	5759.7
65°	5834.7	5891.2	6615.8	7804.9	8400.0	9672.4	8592.2	7499.7	6596.3	6059.8	6028.9
67.5°	5692.9	5938.5	6904.6	8368.2	8855.3	10686.8	9393.9	8032.1	6953.9	6278.7	6048.5
70°	5500.7	5641.5	6533.6	8120.5	8874.9	11062.0	9715.6	8305.5	7107.1	6083.4	5748.4
72.5°	5147.1	5266.3	5722.7	7374.3	8402.1	10582.0	9378.5	8160.6	6924.1	5956.0	5602.4
75°	4518.1	4440.0	4418.4	5885.1	6839.9	8828.6	8126.6	7246.9	6150.2	5490.4	5154.3
77.5°	2703.1	3003.2	3265.2	3738.0	4337.2	5861.4	5621.9	4972.4	4221.1	4001.1	3895.3
80°	1618.7	1730.8	1849.0	2035.0	2416.3	3113.1	3286.8	2848.0	2345.4	2360.8	2685.6
82.5°	624.9	591.0	1088.4	799.6	1004.1	1304.2	1364.9	1168.6	848.9	866.4	1174.8
85°	259.0	300.1	420.4	521.1	705.1	679.4	687.6	575.6	412.1	292.9	347.4
87.5°	98.7	147.0	198.4	256.9	564.2	304.2	327.9	282.6	151.1	105.9	144.9
90°	55.5	66.8	96.6	103.8	188.1	131.6	155.2	141.8	98.7	47.3	47.3
95°	15.4	23.6	62.7	75.0	75.0	58.6	66.8	103.8	55.5	23.6	21.6
105°	0.0	0.0	2.1	6.2	4.1	4.1	6.2	6.2	4.1	0.0	0.0
115°	0.0	0.0	2.1	2.1	4.1	2.1	2.1	2.1	2.1	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
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



REPORT NUMBER: 766461_350MP
 CATALOG NUMBER: GSM-XX-350-MP-XX-AS-SG-XX-X

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4	941.4
5°	939.4	939.4	933.2	919.9	909.6	901.4	905.5	875.7	915.7	856.1
15°	1224.1	1220.0	1364.9	1383.4	1334.1	1306.3	1280.6	1215.9	1140.8	1127.5
25°	1685.6	1724.6	1696.9	1850.0	1911.7	1875.7	1836.6	1677.3	1522.1	1476.9
35°	2534.5	2691.7	2612.6	2780.1	2801.7	2787.3	2620.8	2442.0	2095.6	2030.9
45°	3899.4	4125.5	4502.7	4563.3	4388.6	4573.6	4511.9	4021.7	3416.3	3017.6
50°	4664.1	4714.4	5333.1	5203.6	5290.0	5119.4	5132.7	4576.7	3989.8	3578.7
55°	4729.8	4869.6	5681.6	5710.3	5914.9	5632.2	5504.8	4578.8	3966.2	3618.8
60°	5468.8	5811.1	6710.4	6878.9	7682.6	7076.2	6429.8	5140.9	4331.1	4093.6
62.5°	5791.5	6233.5	7329.1	7582.9	8951.9	7822.4	6993.0	5527.4	4616.8	4369.1
65°	6048.5	6651.8	7926.2	8165.7	10163.7	8604.6	7382.5	5916.9	4871.7	4604.4
67.5°	6221.1	7078.3	8600.4	8611.8	11059.9	9272.6	7861.5	6227.3	5158.4	4871.7
70°	5887.1	6887.1	8887.2	9050.6	11262.4	9743.3	8294.2	6651.8	5496.6	5177.9
72.5°	5720.6	6427.7	8344.5	8613.8	10515.2	9456.6	8105.1	6606.6	5589.1	5417.4
75°	5091.6	5438.0	7012.5	7453.4	8540.8	8912.9	6891.2	5852.2	5103.9	4895.3
77.5°	3999.1	3970.3	5089.6	4923.1	5341.4	5997.1	4506.8	3822.3	3640.4	3358.8
80°	2349.5	2272.4	3082.3	2871.6	2962.1	3355.7	2584.9	2090.5	2017.5	1806.8
82.5°	917.8	844.8	1437.9	1284.7	1813.0	1705.1	1213.8	877.7	1002.1	612.6
85°	320.7	377.2	573.5	655.7	700.9	752.3	549.9	371.0	280.6	192.2
87.5°	129.5	232.3	318.6	357.7	459.4	476.9	329.9	187.1	131.6	66.8
90°	53.4	96.6	127.4	182.9	188.1	217.9	151.1	96.6	45.2	43.2
95°	29.8	66.8	70.9	75.0	62.7	77.1	78.1	70.9	21.6	15.4
105°	2.1	4.1	6.2	6.2	4.1	6.2	8.2	6.2	4.1	4.1
115°	0.0	2.1	2.1	2.1	4.1	2.1	2.1	2.1	2.1	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
165°	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)