

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: 765885

Luminaire Tested: **GSL-XX-1000-HPS-XX-AS-SG-XX-X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 765885  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GSL-XX-1000-HPS-XX-AS-SG-XX-X  
Description: LARGE ARCHITECTURAL AREA FIXTURE-VERTICAL LAMP-SQUARE DISTRIBUTION  
Light Source: 1000 WATT HPS CLEAR E-25  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 140000 (1 lamp)  
Luminaire Lumens: 104331.3 lumens  
Efficiency: 74.5%  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U4 - G5

Input Watts (W): 1000  
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

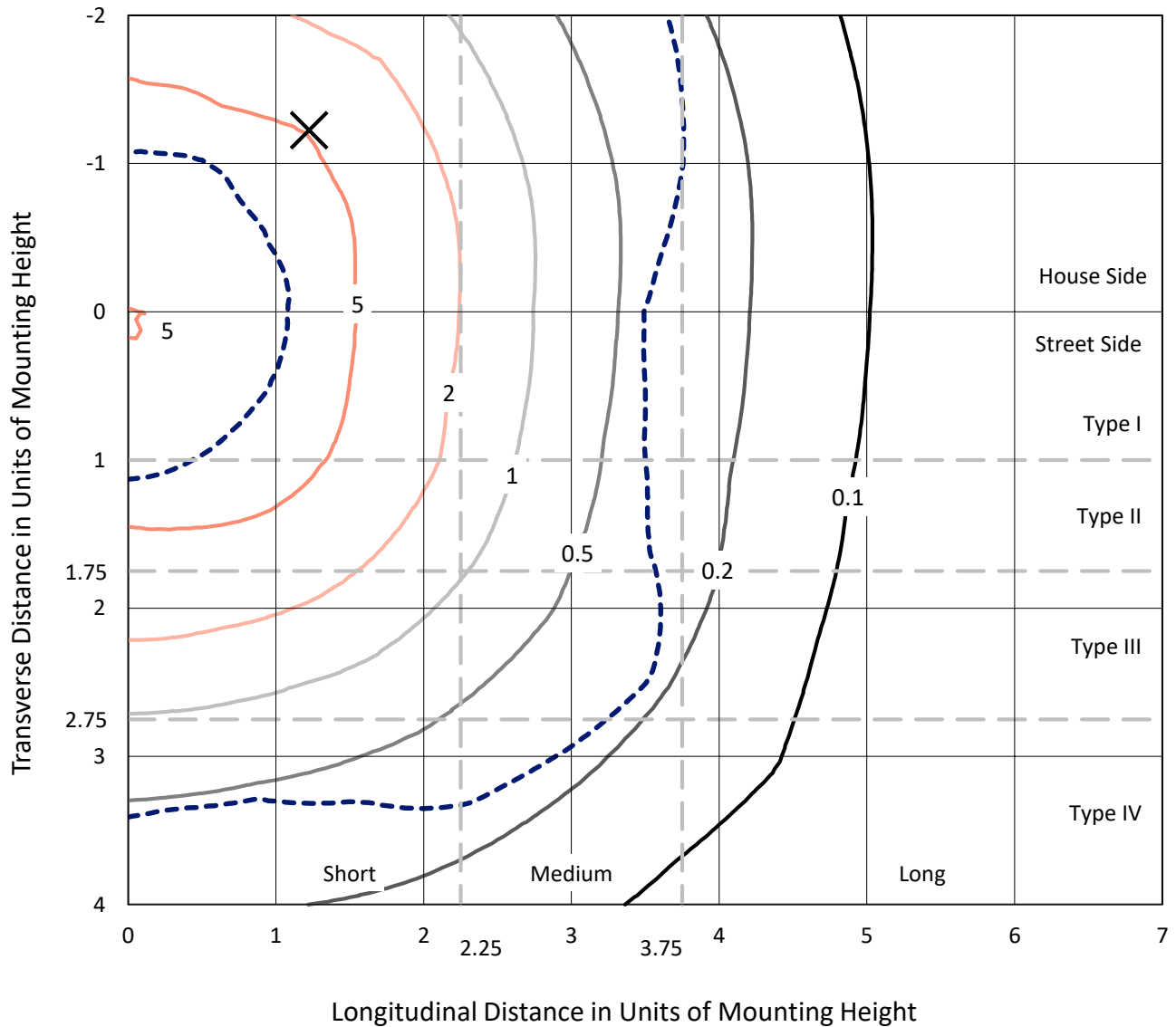


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

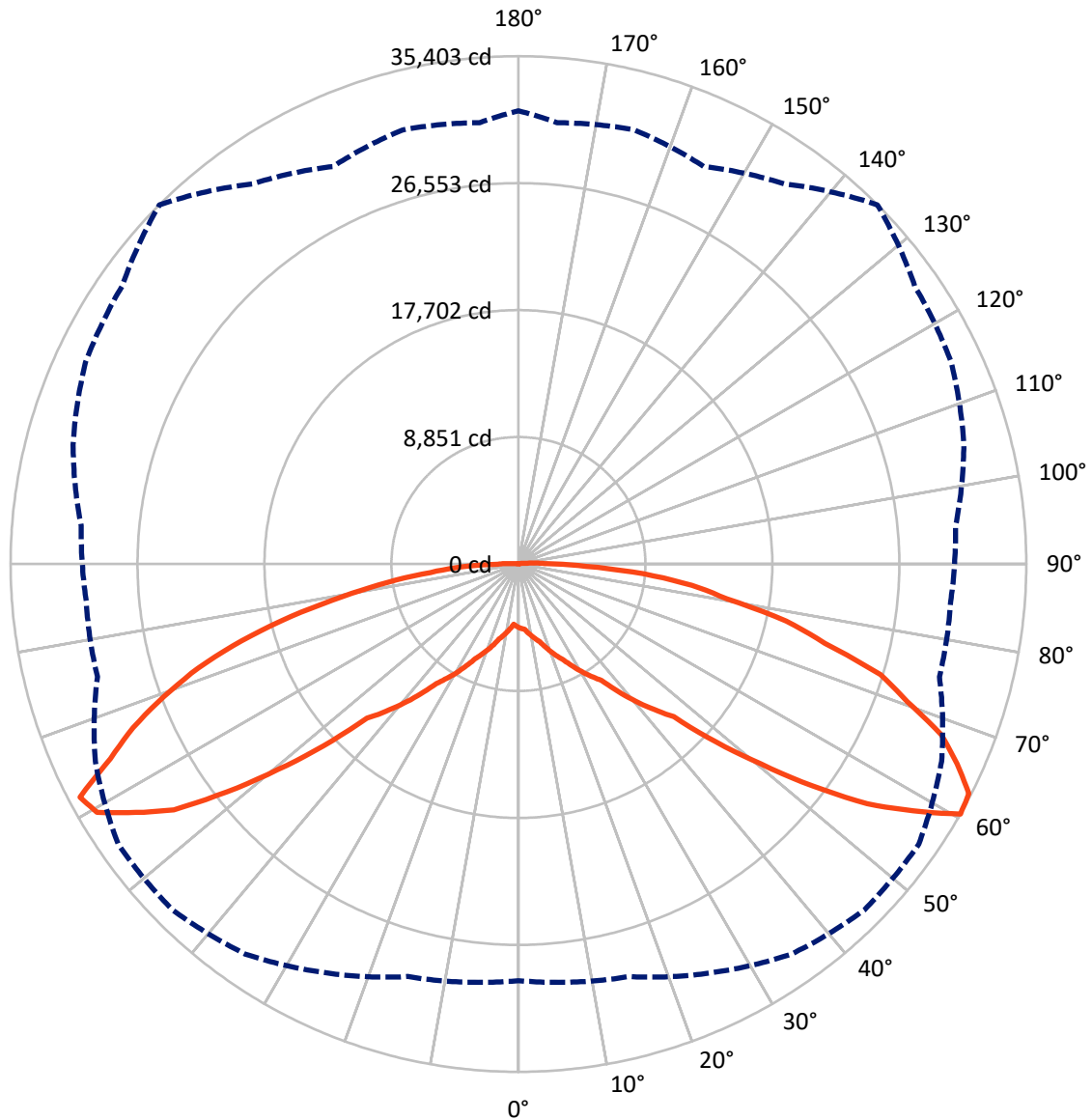


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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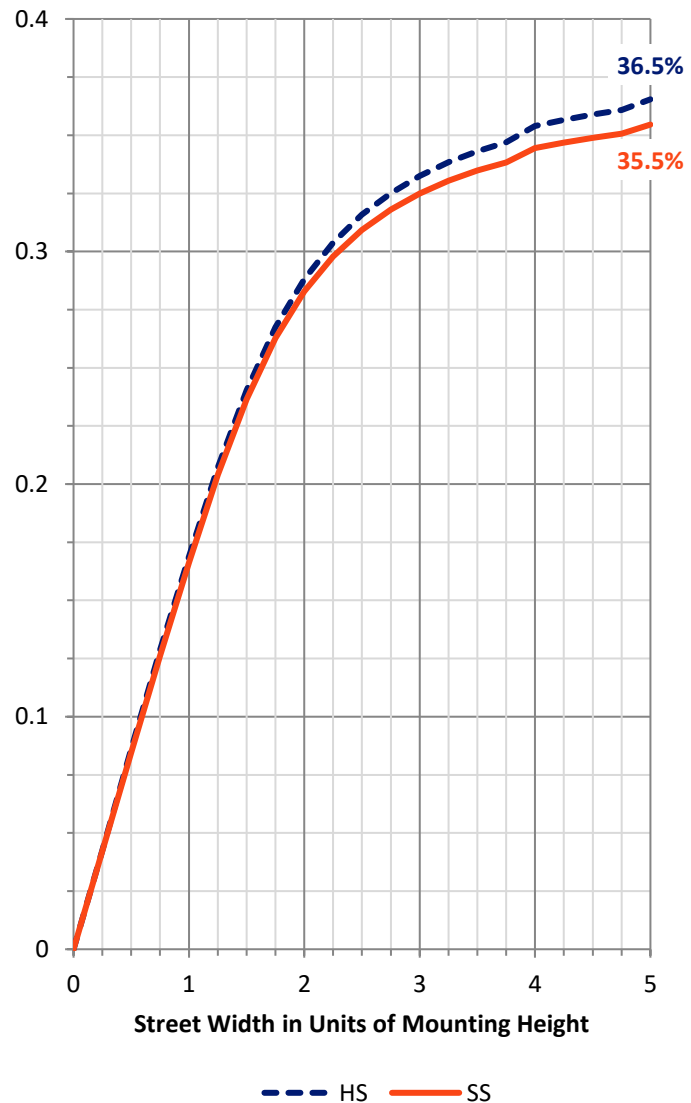
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	52578.0	490.3	53068.3
	% Lamp	37.6	0.4	37.9
<b>Street Side</b>	Lumens	50927.2	335.8	51263.0
	% Lamp	36.4	0.2	36.6
<b>Total</b>	Lumens	103505.2	826.1	104331.3
	% Lamp	73.9	0.6	74.5

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	441.8	0.4	0.3
10°-20°	1618.3	1.6	1.2
20°-30°	3490.1	3.3	2.5
30°-40°	6576.4	6.3	4.7
40°-50°	12870.3	12.3	9.2
50°-60°	24166.6	23.2	17.3
60°-70°	28859.6	27.7	20.6
70°-80°	19470.5	18.7	13.9
80°-90°	6956.9	6.7	5.0
90°-100°	714.3	0.7	0.5
100°-110°	119.3	0.1	0.1
110°-120°	24.4	0.0	0.0
120°-130°	6.0	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°	103505.2	99.2	73.9
0°-180°	104331.3	100.0	74.5



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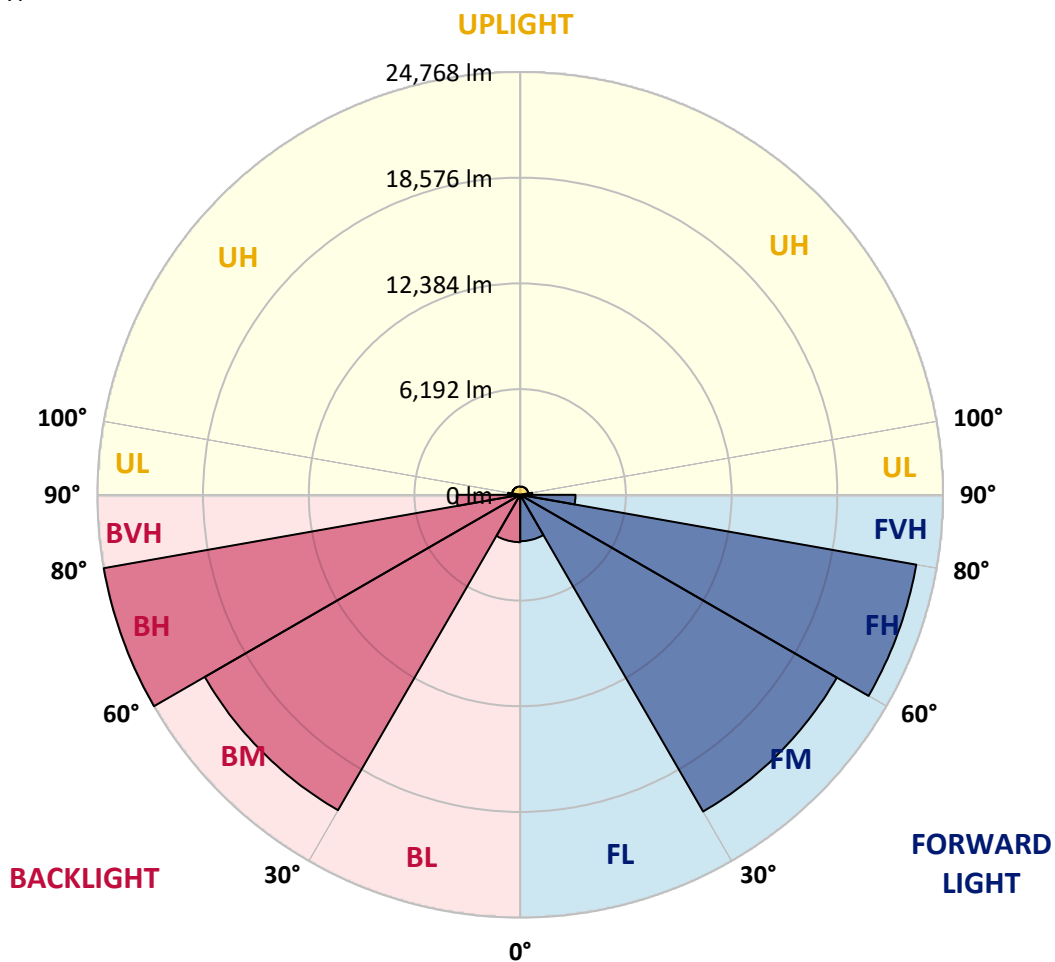
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2716.2	1.9			
FM	(30°-60°)	21422.9	15.3			
FH	(60°-80°)	23561.8	16.8			G5
FVH	(80°-90°)	3240.4	2.3			G5
BL	(0°-30°)	2772.9	2.0	B4/5000		
BM	(30°-60°)	21332.8	15.2	B5		
BH	(60°-80°)	24768.3	17.7	B5		G5
BVH	(80°-90°)	3716.5	2.7			G5
UL	(90°-100°)	714.3	0.5		U4/1000	
UH	(100°-180°)	490.3	0.4		U3/500	
Trapped Light		35668.7	25.5			

**BUG Rating: B5-U4-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6
5°	4130.8	4179.6	4147.4	4163.0	4195.2	4211.8	4292.7	4292.7	4308.4	4372.8	4372.8
15°	5389.4	5341.5	5341.5	5211.8	5211.8	5405.9	5583.5	5744.5	5599.1	5566.9	5583.5
25°	7165.0	7148.4	7148.4	7116.2	7309.4	7245.0	7390.4	7487.0	7390.4	7503.5	7422.6
35°	9843.1	9795.2	9827.4	9875.3	9956.2	10101.6	10101.6	10247.0	10133.8	10085.0	9988.4
45°	14232.4	13877.3	14296.8	14490.9	14846.0	15071.4	15135.8	14684.1	14942.6	14910.4	14846.0
50°	19137.8	19509.5	20057.8	20977.8	21703.7	22091.0	21800.3	21219.8	21429.6	21074.4	21333.0
55°	24237.4	24624.7	25447.2	27060.9	29078.4	29513.6	29175.0	27674.5	27045.2	26238.4	26867.7
60°	29045.3	29271.6	29772.1	31465.8	33192.7	34096.1	34063.9	32547.8	30384.8	30239.5	30401.4
62.5°	28239.4	28529.2	28933.1	30611.2	32353.6	34613.2	32982.9	31595.6	29352.6	29013.1	29432.6
65°	26238.4	26399.4	26544.8	28271.6	30836.6	31499.0	31563.4	29787.8	27028.7	27464.8	27448.2
67.5°	24462.8	24495.0	24576.0	26318.4	28061.8	29175.0	28997.5	29158.5	25173.0	24689.1	25027.7
70°	21397.4	21284.2	21896.9	23139.8	25898.9	26382.8	26932.1	24850.1	23123.3	22526.2	22300.8
72.5°	19170.0	18976.8	19056.9	20896.9	22349.6	23462.8	23575.9	22461.8	19702.7	19170.0	19476.4
75°	15942.7	15604.1	15974.9	17153.4	19654.0	20025.6	20961.3	18250.0	17201.2	16781.7	16524.1
77.5°	13586.6	13232.4	12812.8	14523.1	15232.4	16282.2	16766.1	15991.4	13344.6	13119.2	13474.3
80°	9682.1	9714.3	9729.9	10682.1	12489.9	12425.5	13990.4	11150.4	10989.4	10779.6	10617.7
82.5°	7358.2	7681.1	7051.8	8359.1	8746.4	9230.4	10763.1	8310.4	7777.7	7520.1	7858.6
85°	5034.2	4631.3	4922.0	4922.0	6196.2	6148.4	6857.7	5647.9	5696.6	5341.5	5599.1
87.5°	3163.0	3033.2	2791.3	3259.6	3921.0	4049.8	3452.8	3518.1	3550.3	2985.4	3049.8
90°	1162.0	1145.4	1452.7	1307.3	1645.9	1436.1	1517.1	1517.1	1694.6	1726.8	1791.2
95°	161.0	193.2	226.3	242.0	290.7	290.7	355.1	322.9	258.5	193.2	177.6
105°	0.0	16.6	16.6	32.2	32.2	32.2	32.2	32.2	32.2	32.2	16.6
115°	0.0	16.6	16.6	16.6	16.6	16.6	32.2	32.2	16.6	16.6	16.6
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



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6	4432.6
5°	4405.0	4405.0	4502.5	4534.7	4582.5	4695.7	4695.7	4760.1	4776.6	4776.6
15°	5583.5	5647.9	5647.9	5793.2	5631.3	5389.4	5357.2	5647.9	5906.4	5744.5
25°	7439.1	7616.7	7681.1	7777.7	7454.8	6680.1	6728.9	7390.4	7923.0	7745.5
35°	9988.4	10214.8	10230.4	10472.4	9956.2	8681.1	8890.9	9763.0	10327.0	10069.4
45°	14506.6	14780.7	15281.2	15829.5	15184.6	13070.4	13344.6	14587.5	15330.0	14974.8
50°	20590.5	21010.0	22106.7	20961.3	21913.5	19912.5	19105.6	20428.6	20735.9	21074.4
55°	25818.9	26722.3	28868.7	28561.4	29513.6	27109.6	25511.6	26076.5	25979.9	26722.3
60°	30594.6	32143.9	33289.3	33741.9	35403.4	32338.0	30579.0	31321.4	30885.3	31595.6
62.5°	29610.2	31369.2	32531.2	33547.8	35242.4	31675.6	30304.8	30836.6	30304.8	31046.3
65°	28013.1	29836.5	31046.3	32224.8	33596.6	30337.0	28642.4	29126.3	28545.8	29594.6
67.5°	25689.2	27544.8	28868.7	30078.5	31805.3	27706.7	26335.0	26867.7	26705.8	26818.9
70°	22994.5	24882.3	26238.4	27577.0	28771.2	25770.1	23946.7	24882.3	23752.6	24721.3
72.5°	20186.6	21962.2	23123.3	24543.8	26382.8	22414.0	21155.4	21509.6	21509.6	22494.0
75°	16991.5	18492.9	19606.1	20896.9	22058.8	19719.3	17975.9	18895.9	17895.8	18847.1
77.5°	13893.8	15022.7	15878.3	16314.4	19089.1	15668.5	14555.3	14829.5	15394.4	16233.4
80°	10859.7	11634.3	12603.1	13554.4	14732.9	13102.6	11328.0	12360.2	11796.2	12328.0
82.5°	8004.0	9230.4	9729.9	9682.1	12167.0	9665.5	8729.9	9085.0	9504.5	9682.1
85°	5841.1	5551.3	6503.5	6825.5	8794.3	6793.3	6615.7	6970.8	5825.4	5938.6
87.5°	3195.2	3743.5	3760.0	4017.6	4712.2	3840.1	3888.8	4098.6	3953.2	3873.2
90°	1806.9	2033.2	2226.4	1904.4	1984.4	1759.0	2210.8	2339.6	1872.2	1774.7
95°	193.2	290.7	468.3	580.5	468.3	548.3	516.1	355.1	242.0	258.5
105°	16.6	48.8	64.4	64.4	81.0	81.0	81.0	64.4	48.8	64.4
115°	16.6	16.6	32.2	48.8	32.2	32.2	64.4	32.2	32.2	32.2
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)