

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: 769003\_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-FT-FG-XX-HS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 769003\_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-FT-FG-XX-HS  
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-FORWARD THROW  
DISTRIBUTION  
WITH HOUSE-SIDE SHIELD  
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 33000 (1 lamp)  
Luminaire Lumens: 9295.8 lumens  
Efficiency: 28.2%  
Efficacy: 23.4 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

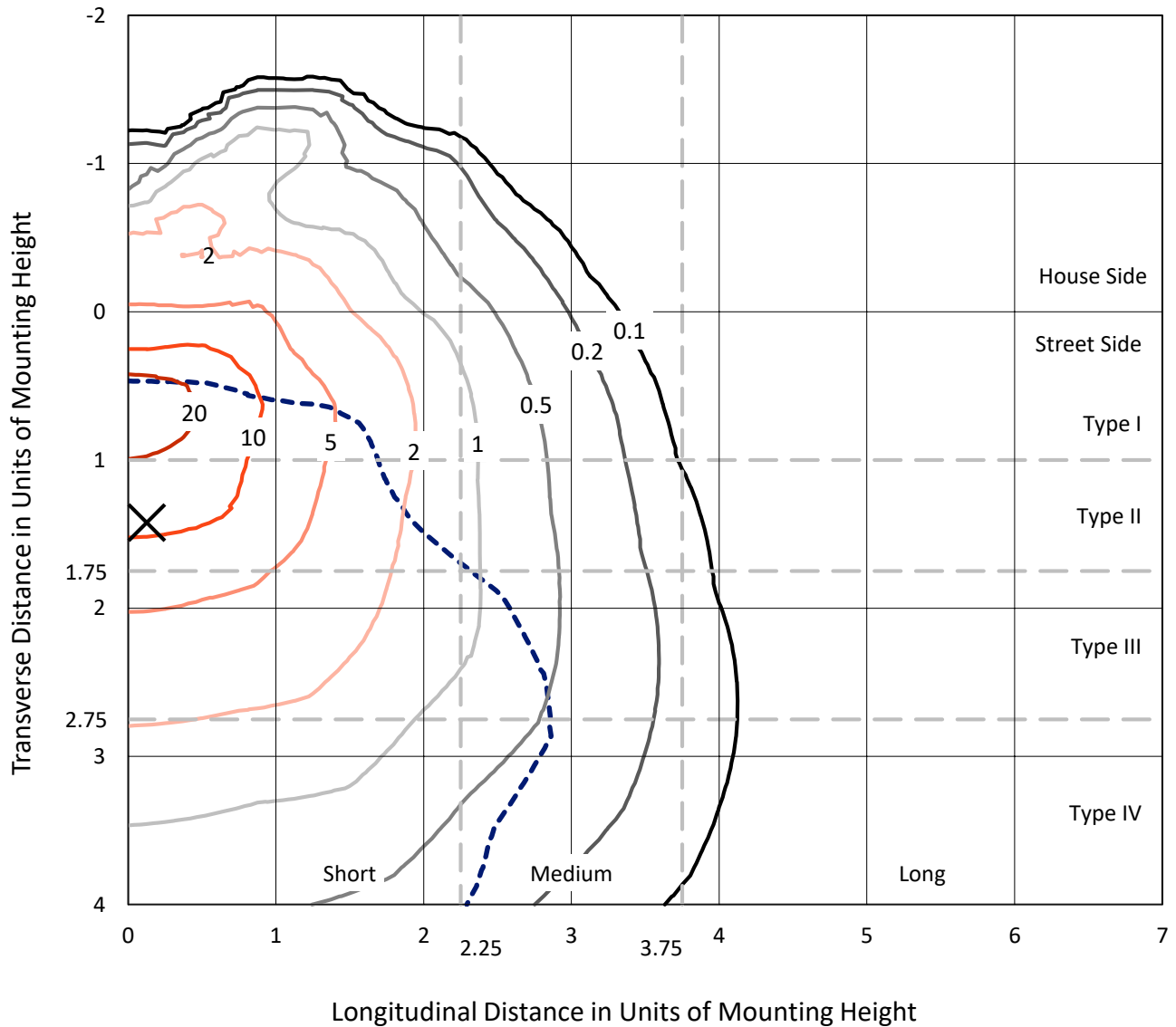
Input Watts (W): 397  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

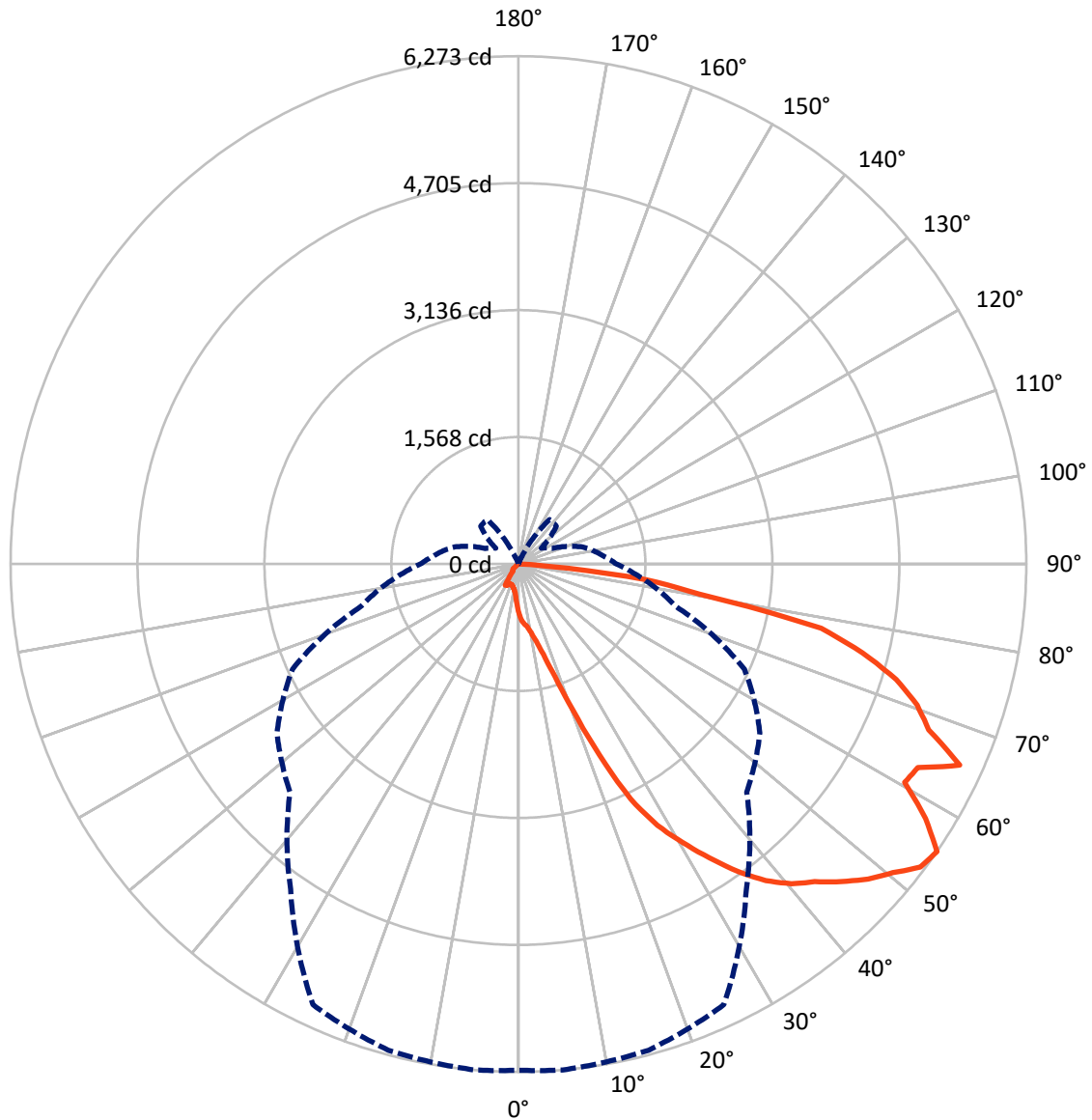
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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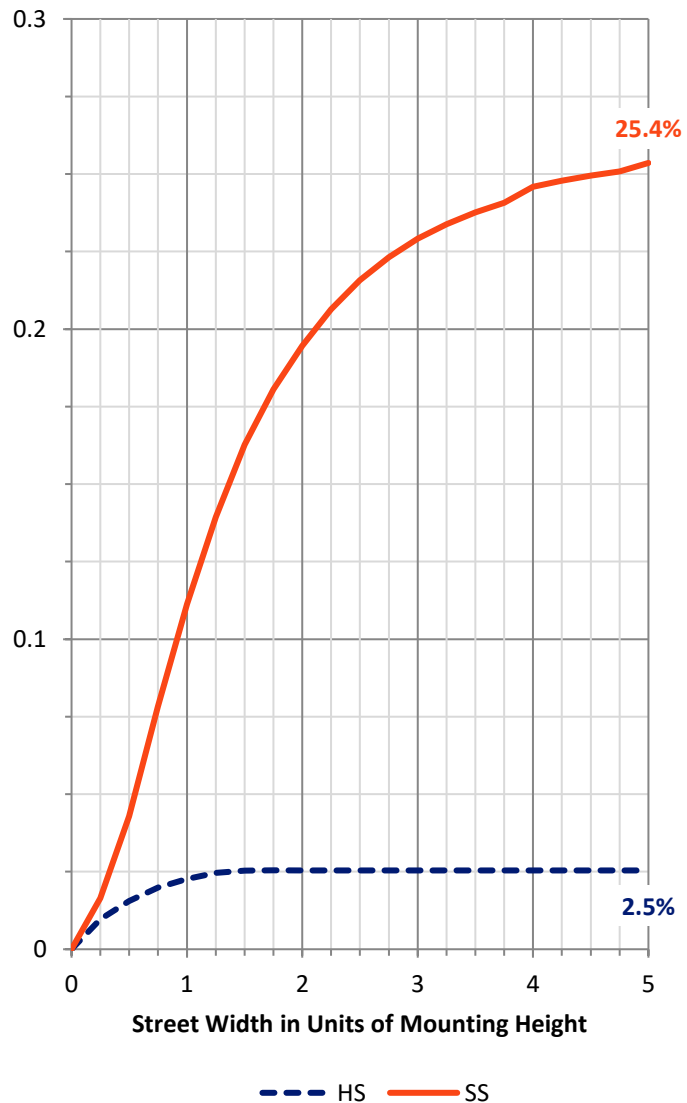
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	844.5	0.0	844.5
	% Lamp	2.6	0.0	2.6
<b>Street Side</b>	Lumens	8451.3	0.0	8451.3
	% Lamp	25.6	0.0	25.6
<b>Total</b>	Lumens	9295.8	0.0	9295.8
	% Lamp	28.2	0.0	28.2

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	56.4	0.6	0.2
10°-20°	195.0	2.1	0.6
20°-30°	540.1	5.8	1.6
30°-40°	1097.4	11.8	3.3
40°-50°	1626.6	17.5	4.9
50°-60°	2047.2	22.0	6.2
60°-70°	2082.8	22.4	6.3
70°-80°	1447.5	15.6	4.4
80°-90°	202.6	2.2	0.6
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	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°	9295.8	100.0	28.2
0°-180°	9295.8	100.0	28.2



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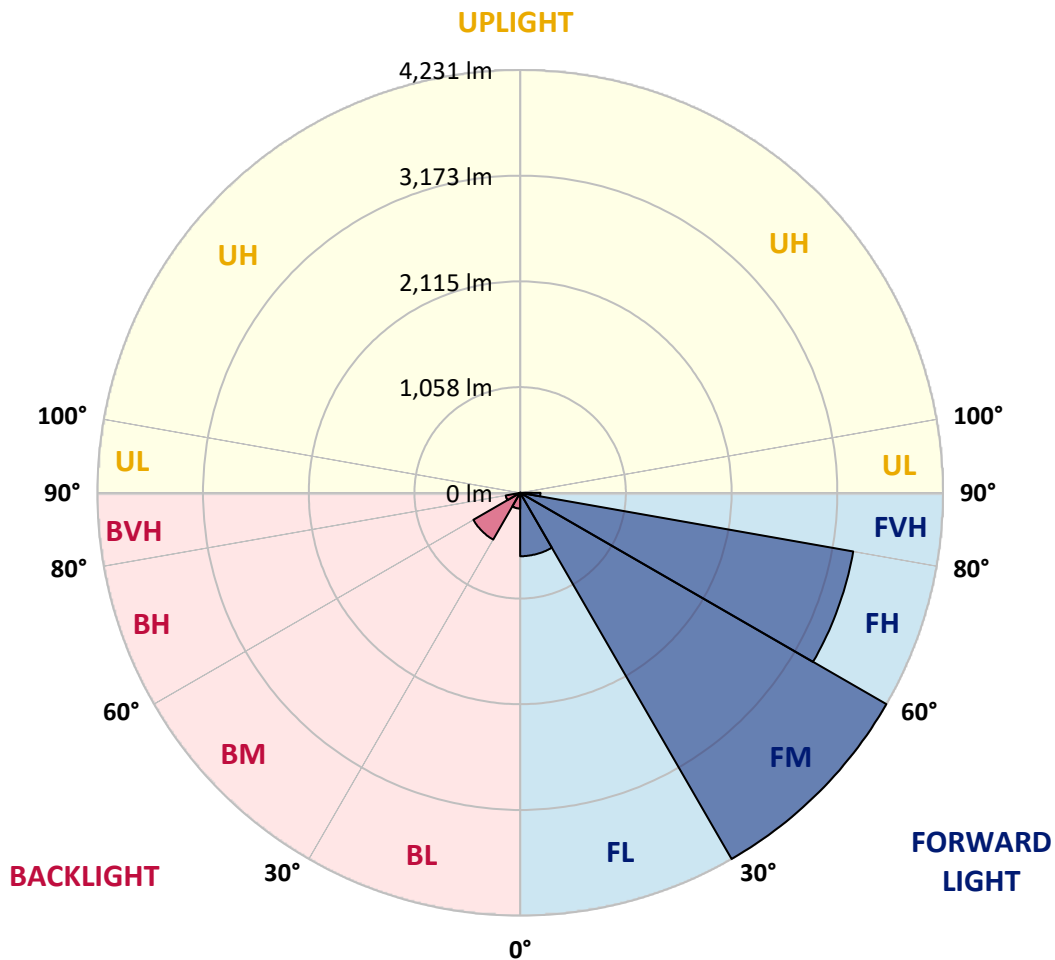
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.4	1.9			
FM (30°-60°)	4230.8	12.8			
FH (60°-80°)	3383.6	10.3			G2/5000
FVH (80°-90°)	202.5	0.6			G2/225
BL (0°-30°)	157.1	0.5	B1/500		
BM (30°-60°)	540.5	1.6	B1/1000		
BH (60°-80°)	146.8	0.4	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	23704.2	71.8			

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
2.5°	695.8	691.2	691.2	685.7	685.7	675.6	660.9	650.8	650.8	630.7	615.1
5°	736.1	741.6	741.6	741.6	731.5	726.0	705.8	691.2	665.5	635.2	620.6
7.5°	776.4	781.9	781.9	776.4	766.3	761.8	746.2	726.0	695.8	645.3	620.6
10°	857.1	857.1	842.4	826.8	806.7	781.9	771.8	751.7	721.4	660.9	625.2
12.5°	978.1	978.1	963.4	927.7	877.2	836.9	812.2	786.5	751.7	675.6	635.2
15°	1159.6	1155.0	1124.8	1064.2	1003.8	937.8	877.2	842.4	792.0	705.8	645.3
17.5°	1462.1	1462.1	1391.5	1276.0	1169.7	1089.0	988.2	907.5	842.4	741.6	671.0
20°	1925.9	1921.3	1794.8	1593.2	1417.2	1255.8	1134.8	1013.8	907.5	776.4	685.7
22.5°	2571.2	2566.7	2365.0	2057.0	1714.2	1477.7	1290.7	1124.8	983.6	822.2	715.9
25°	3216.6	3212.0	3014.9	2667.5	2157.8	1749.9	1462.1	1276.0	1089.0	892.8	761.8
27.5°	3660.2	3655.7	3498.9	3222.1	2728.0	2117.5	1679.3	1427.2	1189.8	978.1	822.2
30°	3973.8	3988.4	3821.6	3575.0	3206.5	2556.6	1905.8	1562.9	1300.8	1074.3	897.4
32.5°	4326.7	4326.7	4149.8	3887.6	3529.2	2974.6	2173.4	1683.9	1401.6	1169.7	993.7
35°	4659.4	4664.0	4512.8	4240.5	3801.4	3282.6	2480.5	1815.0	1497.8	1255.8	1068.8
37.5°	4951.8	4961.9	4815.2	4598.9	4099.3	3458.6	2762.8	1936.0	1573.0	1320.9	1144.9
40°	5183.8	5193.8	5027.0	4865.7	4387.2	3609.8	2980.1	2082.7	1659.2	1391.5	1220.1
42.5°	5345.1	5365.2	5208.5	5027.0	4548.5	3706.1	3111.2	2228.4	1714.2	1441.9	1280.6
45°	5617.3	5597.2	5430.3	5193.8	4518.2	3726.2	3196.4	2415.4	1739.8	1457.5	1310.8
47.5°	5829.1	5813.5	5657.7	5415.7	4437.6	3726.2	3317.4	2601.5	1754.5	1431.8	1296.2
50°	5990.4	5995.0	5829.1	5587.1	4452.2	3766.6	3464.1	2758.2	1815.0	1421.8	1276.0
52.5°	6212.2	6216.8	6055.5	5753.0	4583.3	3817.0	3569.5	2914.1	1895.7	1417.2	1235.7
55°	6252.6	6272.8	6216.8	6005.1	4906.0	3988.4	3640.1	3080.9	2006.6	1452.0	1210.0
57.5°	5929.9	5929.9	5984.9	6091.2	5365.2	4190.1	3630.0	3171.7	2153.2	1482.2	1185.2
60°	5476.2	5480.8	5521.1	5843.8	5607.2	4346.8	3524.6	3121.2	2213.8	1502.4	1129.3
62.5°	5526.6	5536.7	5400.1	5632.0	5415.7	4351.4	3363.2	2944.3	2167.9	1492.3	1099.1
65°	6000.5	5990.4	5954.7	5974.8	5062.8	4149.8	3161.6	2637.2	1991.9	1401.6	1078.9
67.5°	5476.2	5466.1	5637.5	6151.8	5067.3	3938.0	2974.6	2349.4	1790.2	1235.7	993.7
70°	5254.3	5224.1	5248.8	5702.6	4982.1	3943.5	2919.6	2067.1	1542.8	1008.3	786.5
72.5°	4961.9	4881.2	4760.2	5486.2	4583.3	4145.2	2859.1	1790.2	1235.7	660.9	494.1
75°	4467.8	4391.8	4296.4	4734.6	3861.9	3599.8	2409.9	1300.8	675.6	363.0	231.9
77.5°	3872.9	3821.6	3781.2	3680.4	2869.2	2546.5	1709.6	822.2	378.6	227.3	121.0
80°	2288.9	2268.8	2157.8	1885.6	1518.0	1386.9	963.4	484.0	221.8	110.9	35.8
82.5°	1633.5	1588.6	1457.5	1331.0	933.2	564.7	322.7	141.2	60.5	20.2	0.0
85°	393.2	378.6	388.7	403.3	181.5	96.2	50.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
2.5°	615.1	584.8	570.2	550.0	534.4	524.3	509.7	504.2	504.2	494.1
5°	600.4	554.6	514.2	479.4	453.8	433.6	413.4	403.3	403.3	403.3
7.5°	590.3	534.4	473.9	433.6	393.2	373.1	363.0	352.9	348.3	342.8
10°	580.2	509.7	433.6	393.2	358.4	342.8	328.2	318.1	318.1	322.7
12.5°	590.3	484.0	413.4	363.0	332.8	318.1	308.0	302.5	297.9	302.5
15°	590.3	469.3	393.2	348.3	328.2	308.0	292.4	287.8	282.3	282.3
17.5°	584.8	459.2	378.6	332.8	308.0	287.8	277.8	277.8	272.2	272.2
20°	600.4	449.2	368.5	328.2	302.5	287.8	277.8	272.2	267.7	272.2
22.5°	610.5	443.7	363.0	322.7	292.4	272.2	262.2	262.2	267.7	262.2
25°	635.2	449.2	368.5	322.7	292.4	267.7	272.2	272.2	267.7	272.2
27.5°	671.0	453.8	383.2	322.7	287.8	282.3	282.3	292.4	292.4	292.4
30°	711.3	463.8	383.2	322.7	297.9	308.0	318.1	312.6	297.9	302.5
32.5°	792.0	504.2	383.2	328.2	318.1	363.0	363.0	322.7	308.0	302.5
35°	872.7	544.5	398.8	338.2	368.5	443.7	413.4	308.0	201.7	181.5
37.5°	953.3	645.3	418.9	358.4	433.6	514.2	418.9	227.3	126.5	110.9
40°	1058.8	792.0	459.2	398.8	489.5	534.4	378.6	217.2	106.3	90.8
42.5°	1155.0	953.3	479.4	429.0	494.1	463.8	358.4	201.7	106.3	90.8
45°	1215.5	1023.9	489.5	439.1	459.2	418.9	363.0	156.8	100.8	90.8
47.5°	1205.4	993.7	473.9	418.9	418.9	418.9	378.6	96.2	86.2	80.7
50°	1155.0	927.7	453.8	368.5	423.5	499.6	338.2	50.4	55.9	50.4
52.5°	1109.2	862.6	439.1	348.3	499.6	620.6	207.2	15.6	10.1	10.1
55°	1064.2	816.8	453.8	342.8	660.9	671.0	106.3	5.5	0.0	0.0
57.5°	1013.8	802.1	484.0	363.0	862.6	570.2	60.5	0.0	0.0	0.0
60°	937.8	761.8	519.8	398.8	822.2	282.3	15.6	0.0	0.0	0.0
62.5°	842.4	695.8	539.9	413.4	433.6	45.8	5.5	0.0	0.0	0.0
65°	786.5	605.0	534.4	211.8	86.2	0.0	0.0	0.0	0.0	0.0
67.5°	741.6	484.0	393.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	590.3	277.8	86.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	312.6	136.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	116.4	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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

(END OF REPORT)