

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: 769006_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-1F-FG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769006_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-1F-FG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE I DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 20493.3 lumens
Efficiency: 62.1%
Efficacy: 51.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

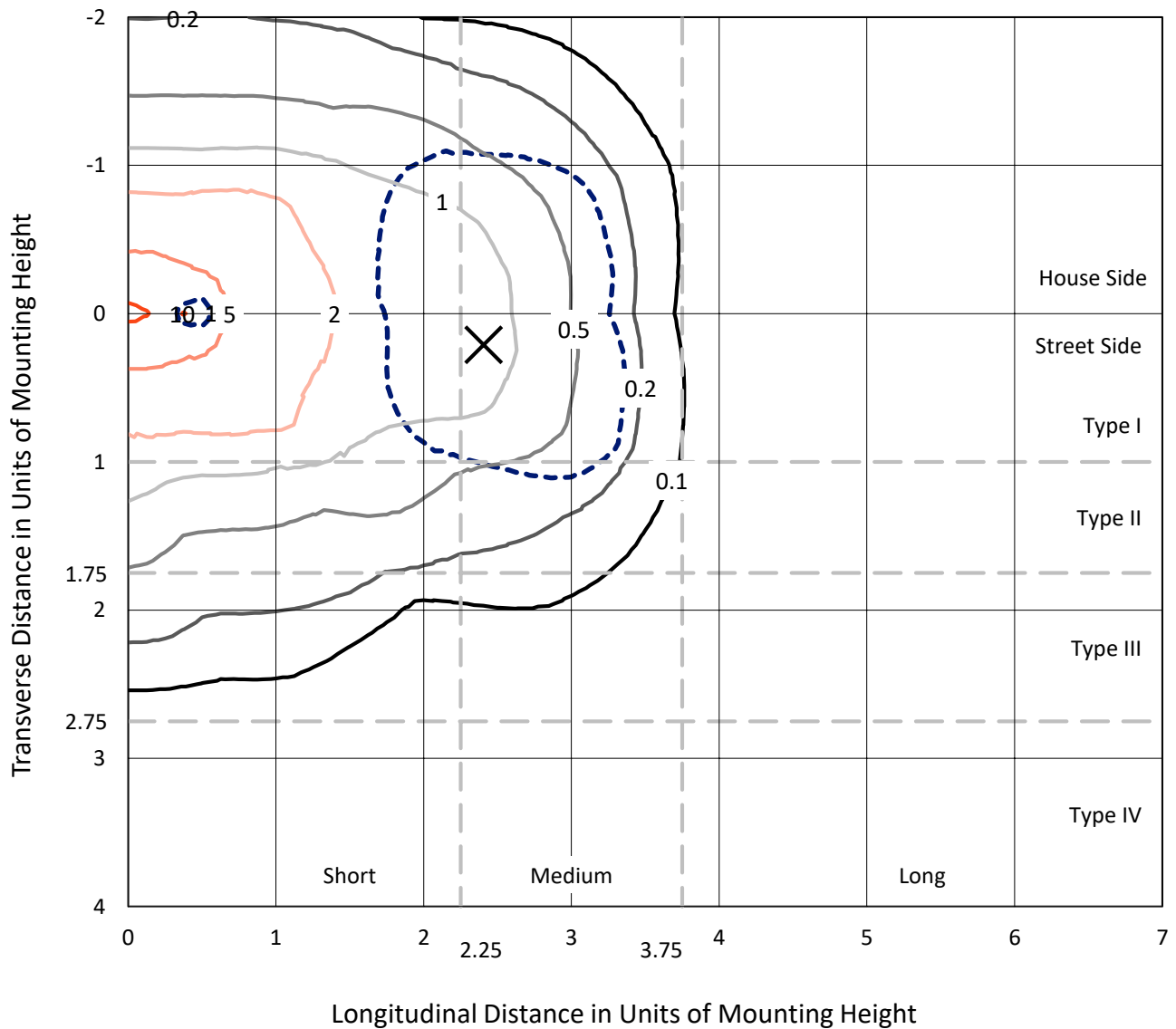
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

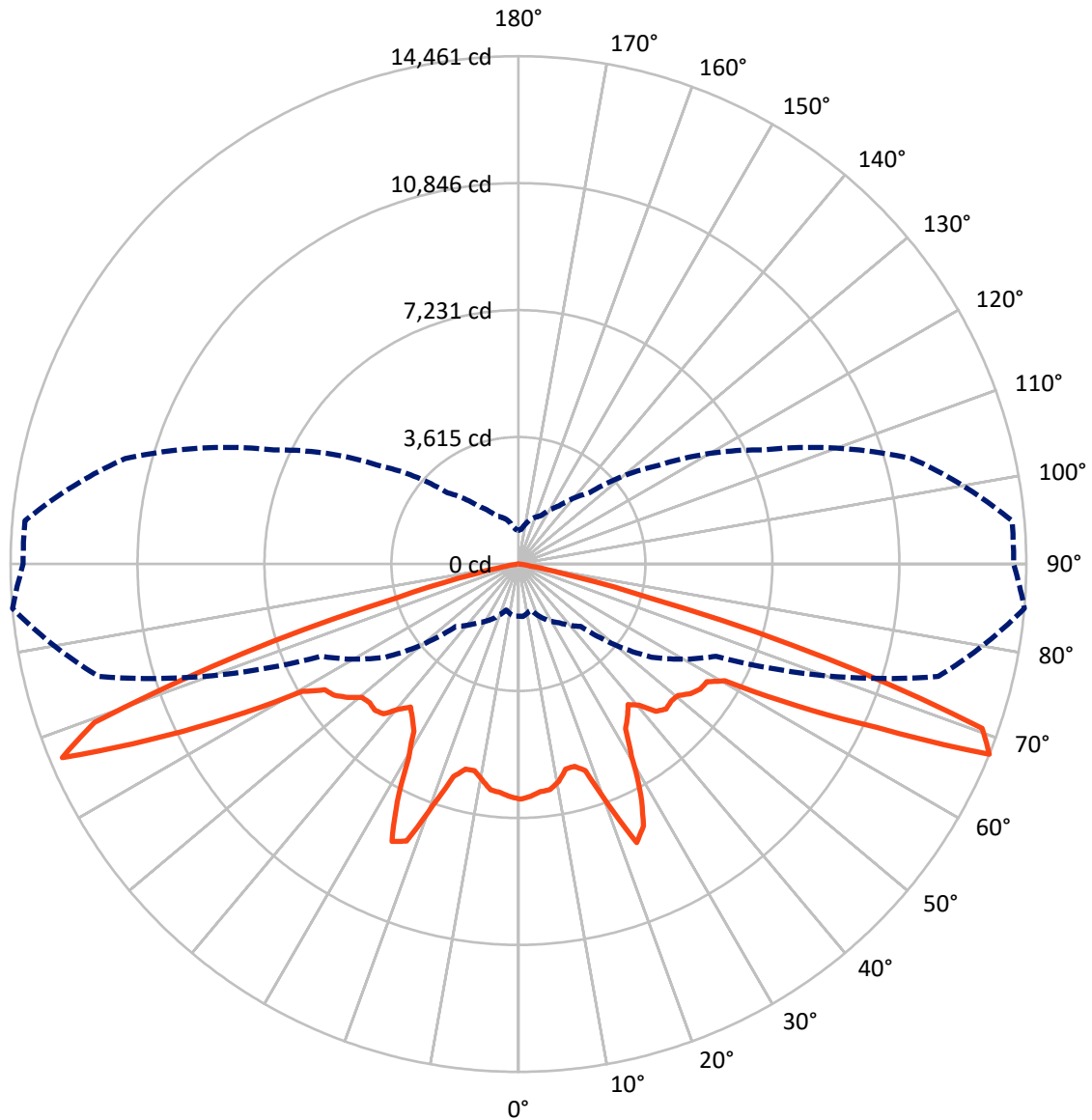
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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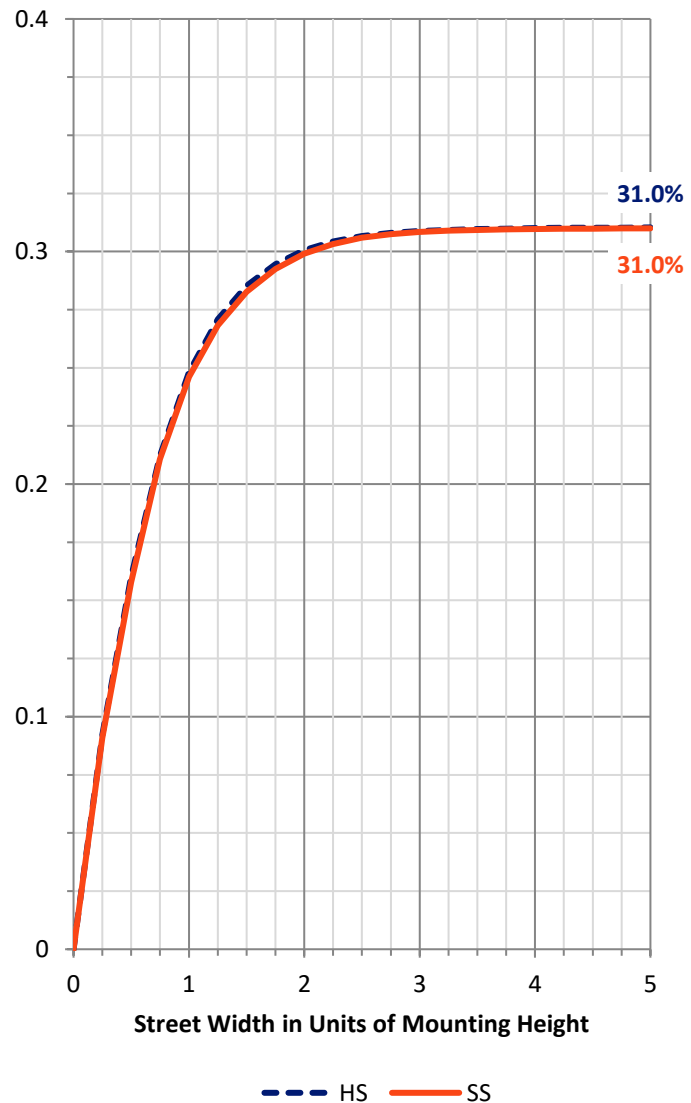
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10283.6	0.0	10283.6
	% Lamp	31.2	0.0	31.2
Street Side	Lumens	10209.7	0.0	10209.7
	% Lamp	30.9	0.0	30.9
Total	Lumens	20493.3	0.0	20493.3
	% Lamp	62.1	0.0	62.1

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	596.1	2.9	1.8
10°-20°	1512.0	7.4	4.6
20°-30°	2267.8	11.1	6.9
30°-40°	2537.8	12.4	7.7
40°-50°	3198.2	15.6	9.7
50°-60°	3641.4	17.8	11.0
60°-70°	4664.8	22.8	14.1
70°-80°	2037.6	9.9	6.2
80°-90°	37.5	0.2	0.1
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°	20493.3	100.0	62.1
0°-180°	20493.3	100.0	62.1



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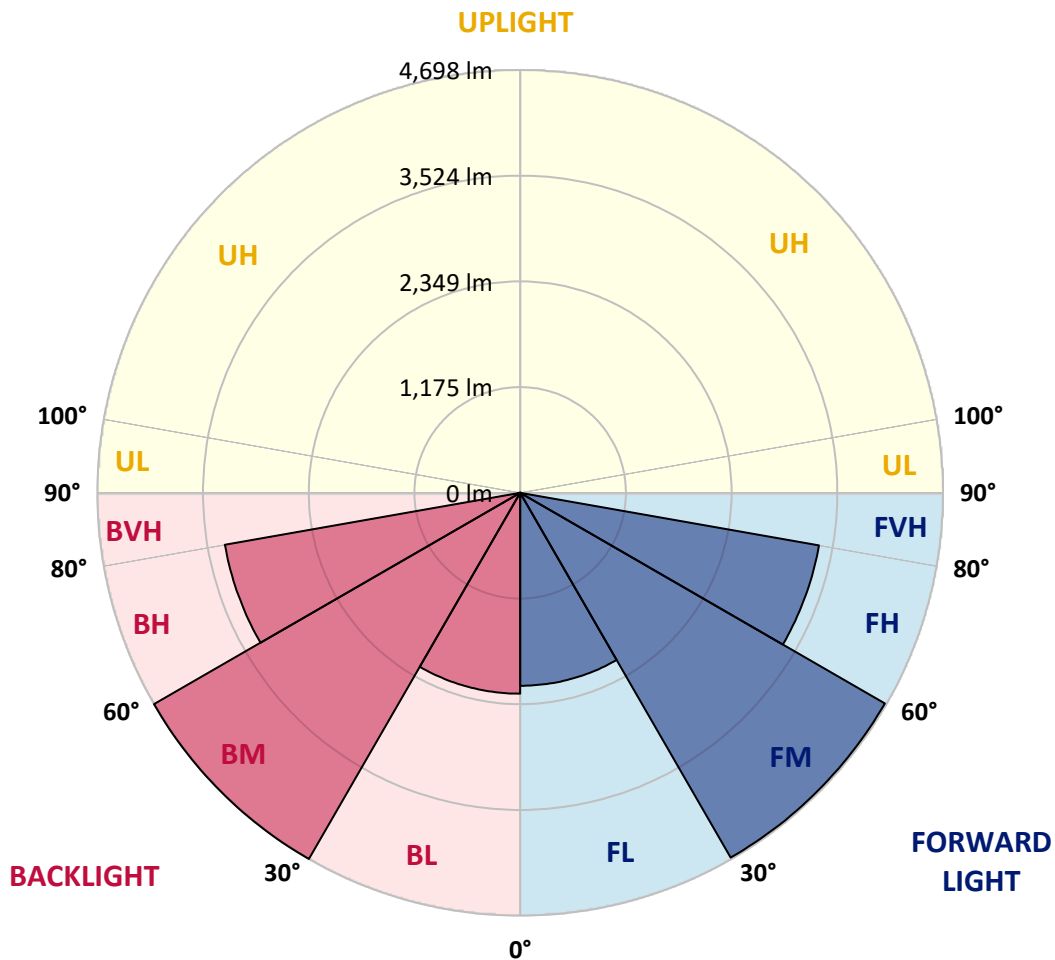
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2144.2	6.5			
FM	(30°-60°)	4679.5	14.2			
FH	(60°-80°)	3371.1	10.2			G2/5000
FVH	(80°-90°)	14.9	0.0			G1/100
BL	(0°-30°)	2231.7	6.8	B3/2500		
BM	(30°-60°)	4698.0	14.2	B3/5000		
BH	(60°-80°)	3331.3	10.1	B4/5000		G4/5000
BVH	(80°-90°)	22.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		12506.7	37.9			

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2
2.5°	6595.4	6600.0	6600.0	6600.0	6605.5	6605.5	6635.8	6635.8	6630.2	6620.2	6645.8
5°	6232.4	6232.4	6252.6	6272.8	6327.8	6363.5	6444.2	6499.2	6519.3	6514.8	6534.9
7.5°	5738.3	5732.8	5783.2	5869.4	5980.3	6075.7	6206.8	6323.2	6428.6	6484.5	6499.2
10°	5324.9	5335.0	5390.0	5511.0	5698.0	5879.5	6085.8	6192.1	6272.8	6292.9	6287.4
12.5°	4992.2	5012.3	5062.8	5173.7	5365.2	5566.9	5793.3	5849.2	5894.2	5990.4	6035.3
15°	4689.7	4684.2	4760.2	4875.8	5037.1	5163.6	5375.3	5551.3	5728.2	5974.8	6061.0
17.5°	4286.3	4296.4	4422.0	4558.6	4694.2	4760.2	5022.4	5395.5	5829.1	6186.6	6343.3
20°	3861.9	3883.0	4004.0	4159.8	4276.2	4371.6	4699.8	5425.8	6640.3	7311.3	7386.5
22.5°	3539.2	3544.8	3665.8	3851.8	3983.8	4145.2	4472.4	5445.9	7311.3	8617.6	8789.0
25°	3267.0	3282.6	3413.7	3650.2	3841.8	4024.2	4417.4	5385.4	6988.7	8264.7	8672.6
27.5°	3035.1	3065.3	3317.4	3650.2	3851.8	4028.8	4538.4	5445.9	6529.4	7426.8	7664.2
30°	2823.3	2889.3	3413.7	3706.1	3837.2	3893.1	4306.5	5148.0	5702.6	6347.9	6504.7
32.5°	2712.4	2778.4	3605.2	3458.6	3696.0	3645.6	3817.0	4457.8	5107.7	5597.2	5712.7
35°	2641.8	2692.2	3498.9	3353.2	3887.6	3857.3	3766.6	4155.2	4815.2	5349.7	5400.1
37.5°	2651.9	2682.2	3216.6	3212.0	4004.0	4240.5	3978.3	4195.6	4709.8	5077.4	5153.5
40°	2702.3	2722.5	2808.7	2964.5	3847.2	4750.2	4361.5	4447.7	4946.3	5284.6	5365.2
42.5°	2651.9	2677.6	2541.0	2762.8	3589.7	5087.5	4845.5	4901.4	5521.1	5732.8	5732.8
45°	2591.4	2601.5	2399.8	2596.9	3287.2	4845.5	5329.5	5299.2	5843.8	5894.2	5808.9
47.5°	2581.3	2530.9	2288.9	2465.8	3095.6	4452.2	5546.8	5365.2	5652.2	5843.8	5813.5
50°	2611.6	2486.0	2163.3	2365.0	2944.3	4119.5	5788.8	5345.1	5607.2	5884.1	5874.0
52.5°	2631.8	2445.7	2077.2	2268.8	2833.4	3811.5	6065.6	5460.6	5708.1	6131.6	6192.1
55°	2551.1	2375.1	1966.2	2188.1	2732.6	3464.1	5869.4	5561.4	6226.9	6282.8	6388.2
57.5°	2530.9	2425.5	1870.9	2112.9	2667.5	3216.6	5173.7	5556.8	6413.9	6327.8	6468.9
60°	2430.1	2319.2	1784.8	2026.8	2571.2	3070.8	4790.5	5536.7	6534.9	6746.7	6938.2
62.5°	2188.1	2123.0	1663.8	1941.5	2395.2	2929.7	5178.2	6075.7	7821.0	8869.7	9071.3
65°	1925.9	1915.8	1512.5	1845.2	2268.8	2768.3	5329.5	6615.6	9721.2	11209.0	11264.0
67.5°	1482.2	1497.8	1351.2	1719.7	2046.9	2510.8	4623.7	6212.2	12374.1	14461.3	14102.9
70°	947.8	957.9	1165.1	1441.9	1411.7	1487.8	3347.7	5137.9	12797.6	14012.2	12903.0
72.5°	453.8	469.3	731.5	630.7	519.8	660.9	3252.3	5062.8	9580.1	9192.3	7896.2
75°	121.0	131.1	318.1	217.2	237.4	388.7	2571.2	3831.7	4609.0	3861.9	3186.3
77.5°	40.3	50.4	110.9	90.8	141.2	221.8	1074.3	1320.9	1326.4	1185.2	1124.8
80°	10.1	10.1	20.2	20.2	60.5	86.2	277.8	308.0	318.1	338.2	368.5
82.5°	0.0	0.0	0.0	0.0	10.1	10.1	35.8	55.9	70.6	80.7	90.8
85°	0.0	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	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°	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2	6696.2
2.5°	6630.2	6630.2	6650.4	6625.7	6620.2	6615.6	6630.2	6635.8	6615.6	6645.8
5°	6529.4	6499.2	6504.7	6458.8	6448.8	6438.7	6438.7	6413.9	6403.8	6403.8
7.5°	6479.0	6408.4	6378.2	6287.4	6222.3	6156.3	6101.3	6061.0	6020.7	6020.7
10°	6237.0	6166.4	6105.9	6020.7	5950.1	5829.1	5742.9	5687.9	5672.3	5667.8
12.5°	6015.2	5929.9	5859.3	5722.8	5597.2	5506.4	5400.1	5324.9	5299.2	5294.7
15°	6030.8	5849.2	5667.8	5480.8	5324.9	5203.9	5082.9	4992.2	4946.3	4972.0
17.5°	6327.8	5960.2	5556.8	5173.7	4976.6	4901.4	4770.3	4664.0	4619.1	4629.2
20°	7275.6	6579.8	5642.1	5006.8	4694.2	4573.2	4437.6	4336.8	4276.2	4276.2
22.5°	8506.7	7180.2	5788.8	4840.9	4457.8	4316.6	4180.0	4048.9	3958.2	3943.5
25°	8682.7	7311.3	5788.8	4744.7	4321.2	4169.9	4024.2	3837.2	3670.3	3660.2
27.5°	7603.8	6791.6	5627.4	4639.2	4235.9	4129.6	3988.4	3746.4	3448.5	3408.2
30°	6347.9	5894.2	5113.2	4280.8	4024.2	4034.2	3877.5	3645.6	3282.6	3236.8
32.5°	5617.3	5335.0	4714.4	4014.1	3791.3	3851.8	3554.8	3398.1	3135.9	3085.5
35°	5329.5	5067.3	4498.1	3953.6	3897.7	3817.0	3333.0	3080.9	2934.2	2914.1
37.5°	5097.6	4921.6	4422.0	4018.7	4114.9	3861.9	3161.6	2873.8	2783.0	2783.0
40°	5355.2	5093.0	4553.1	4270.8	4411.9	3877.5	3000.2	2707.8	2637.2	2651.9
42.5°	5742.9	5526.6	4845.5	4623.7	4643.8	3801.4	2843.5	2566.7	2475.9	2480.5
45°	5833.7	5698.0	5113.2	4972.0	4709.8	3605.2	2702.3	2425.5	2309.1	2309.1
47.5°	5788.8	5647.6	5299.2	5258.9	4664.0	3398.1	2576.8	2288.9	2157.8	2137.7
50°	5849.2	5692.5	5430.3	5511.0	4548.5	3196.4	2455.8	2147.8	2006.6	1986.4
52.5°	6166.4	5768.6	5516.5	5677.8	4401.8	3030.5	2354.9	2036.8	1891.1	1875.5
55°	6434.1	6121.5	5597.2	5611.8	4149.8	2893.9	2254.1	1931.4	1784.8	1774.7
57.5°	6575.2	6363.5	5778.7	5395.5	3837.2	2772.9	2163.3	1835.2	1699.5	1683.9
60°	7139.9	6797.1	6050.9	5208.5	3539.2	2641.8	2062.5	1739.8	1608.8	1613.3
62.5°	9293.2	8390.2	6938.2	5329.5	3363.2	2470.4	1946.1	1659.2	1457.5	1462.1
65°	11602.2	10235.5	7684.4	5359.8	3191.8	2288.9	1770.1	1542.8	1230.2	1220.1
67.5°	14108.4	11596.8	7684.4	4911.5	2873.8	2022.2	1518.0	1316.3	998.2	957.9
70°	12888.3	10406.9	6242.5	3529.2	1815.0	1331.0	1159.6	917.6	721.4	715.9
72.5°	8249.1	7553.3	4941.8	2793.1	1023.9	519.8	459.2	463.8	429.0	443.7
75°	3575.0	4038.8	3091.0	1971.8	681.1	262.2	146.7	156.8	171.4	181.5
77.5°	1331.0	1663.8	1452.0	1048.7	398.8	151.2	70.6	70.6	90.8	90.8
80°	433.6	524.3	494.1	383.2	171.4	66.0	25.7	20.2	30.2	30.2
82.5°	106.3	121.0	100.8	76.1	30.2	5.5	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)