

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: 769015_350MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769015_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-SG-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: 21365.8 lumens
Efficiency: 64.7%
Efficacy: 53.8 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

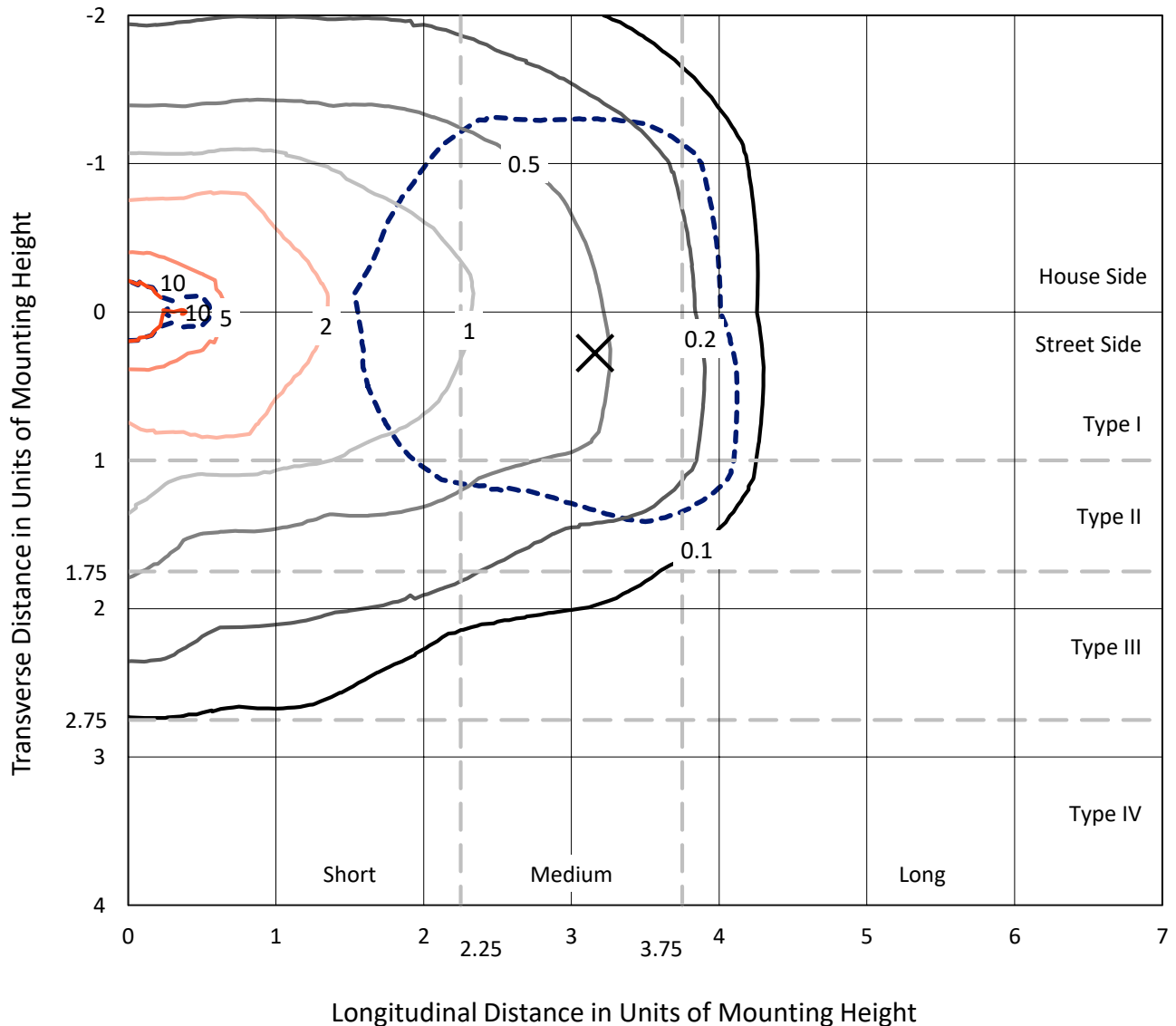
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

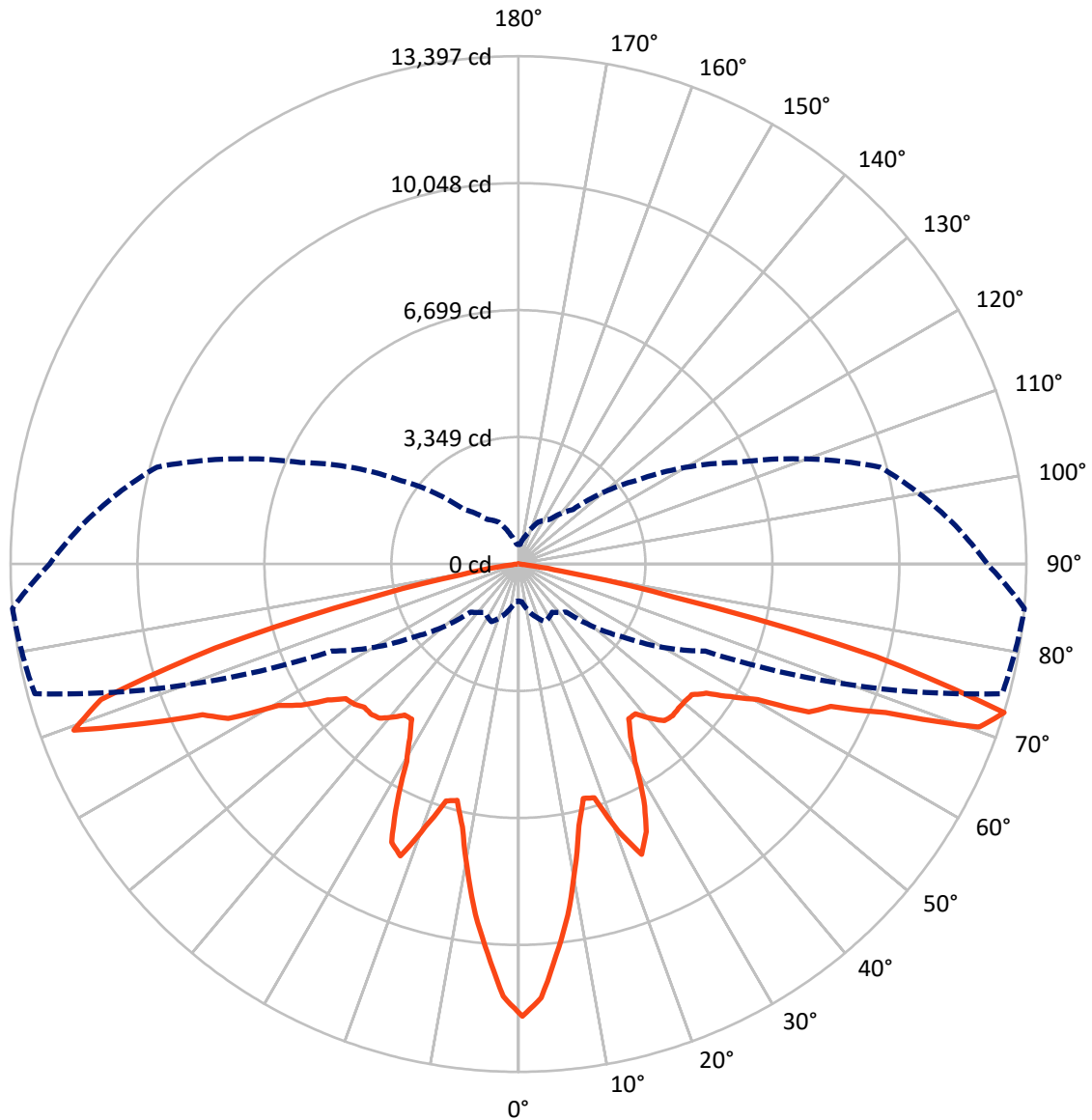
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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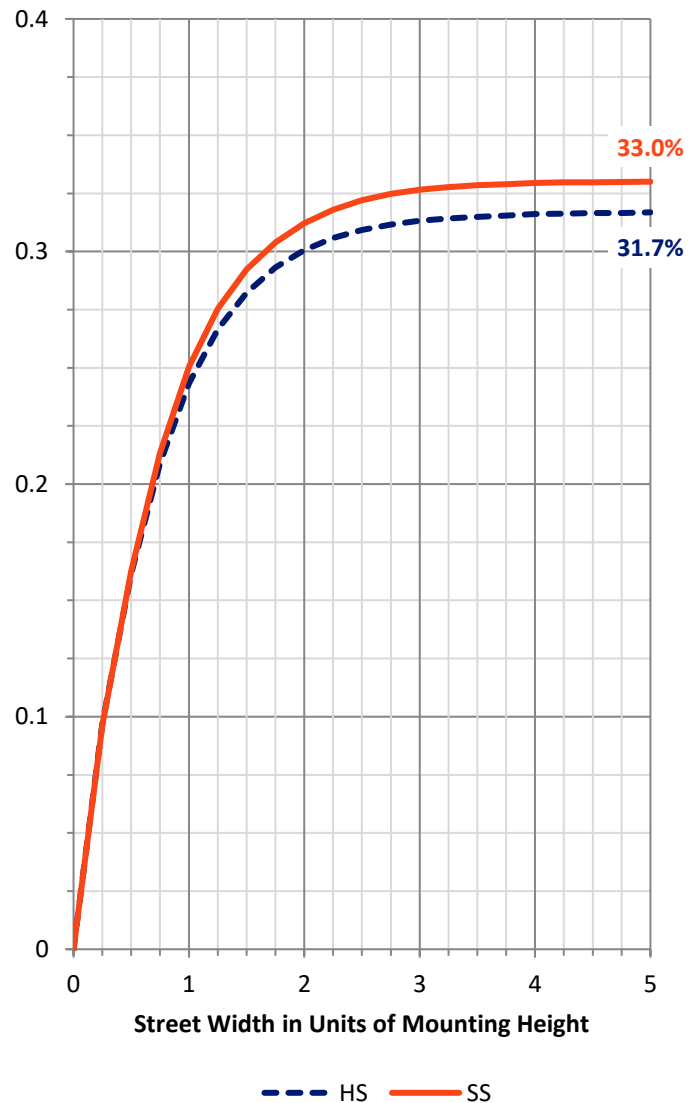
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10492.6	0.0	10492.6
	% Lamp	31.8	0.0	31.8
Street Side	Lumens	10873.2	0.0	10873.2
	% Lamp	32.9	0.0	32.9
Total	Lumens	21365.8	0.0	21365.8
	% Lamp	64.7	0.0	64.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	885.9	4.1	2.7
10°-20°	1660.1	7.8	5.0
20°-30°	2185.7	10.2	6.6
30°-40°	2347.0	11.0	7.1
40°-50°	2977.9	13.9	9.0
50°-60°	3410.1	16.0	10.3
60°-70°	4510.0	21.1	13.7
70°-80°	3258.2	15.2	9.9
80°-90°	130.8	0.6	0.4
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°	21365.8	100.0	64.7
0°-180°	21365.8	100.0	64.7



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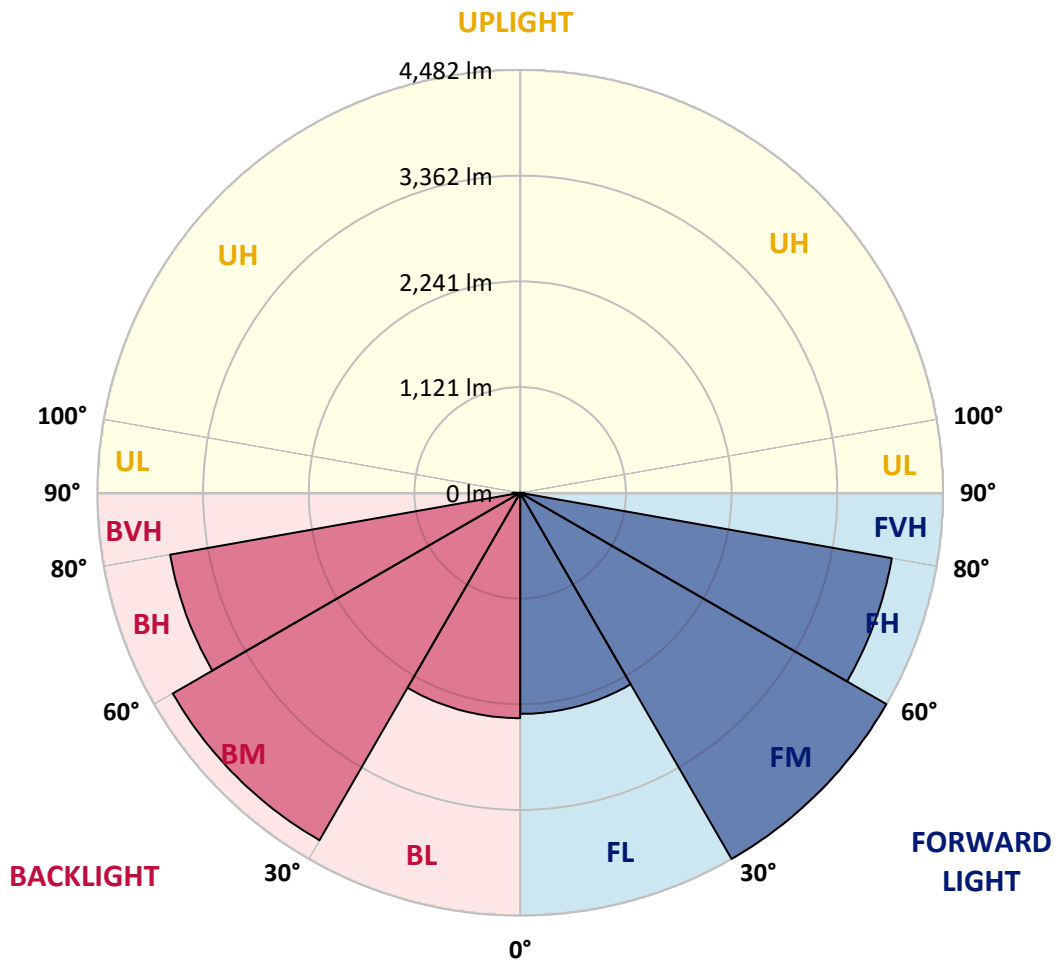
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.4	7.1			
FM (30°-60°)	4482.1	13.6			
FH (60°-80°)	4000.4	12.1			G2/5000
FVH (80°-90°)	47.4	0.1			G1/100
BL (0°-30°)	2388.3	7.2	B3/2500		
BM (30°-60°)	4252.9	12.9	B3/5000		
BH (60°-80°)	3767.9	11.4	B4/5000		G4/5000
BVH (80°-90°)	83.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	11634.2	35.3			

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°	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4
2.5°	11334.6	11334.6	11340.1	11360.2	11374.9	11410.7	11440.9	11455.6	11455.6	11461.1	11455.6
5°	9680.9	9680.9	9741.4	9827.6	9953.2	10079.7	10205.2	10296.0	10356.5	10372.1	10372.1
7.5°	7916.3	7942.0	8017.2	8173.9	8375.6	8607.5	8839.4	9061.2	9262.9	9358.2	9378.4
10°	6736.6	6741.2	6787.0	6882.3	7089.5	7406.7	7734.8	7926.4	8057.5	8178.5	8214.2
12.5°	5879.5	5863.9	5894.2	5954.7	6131.6	6383.7	6610.1	6847.5	6998.8	7084.0	7124.3
15°	5123.2	5113.2	5208.5	5359.8	5531.2	5587.1	5732.8	5960.2	6202.2	6413.9	6489.1
17.5°	4477.9	4488.0	4679.6	4916.1	5032.5	5012.3	5158.1	5581.6	6141.7	6484.5	6585.3
20°	4014.1	4018.7	4185.5	4447.7	4563.2	4553.1	4750.2	5415.7	6821.8	7517.6	7533.2
22.5°	3579.6	3595.2	3781.2	4034.2	4210.2	4260.7	4477.9	5304.8	7053.8	8319.7	8536.9
25°	3246.8	3272.5	3448.5	3736.3	3933.4	4059.0	4367.0	5214.0	6690.8	7825.6	8113.4
27.5°	3004.8	3020.4	3297.2	3569.5	3716.2	3903.2	4336.8	5238.8	6222.3	7053.8	7200.4
30°	2762.8	2818.8	3246.8	3373.3	3564.9	3640.1	3958.2	4770.3	5425.8	6050.9	6121.5
32.5°	2611.6	2687.7	3191.8	3171.7	3337.6	3367.8	3559.4	4135.1	4875.8	5430.3	5496.3
35°	2500.7	2586.8	3075.4	3135.9	3559.4	3433.8	3519.1	3993.9	4588.8	5012.3	5042.6
37.5°	2389.8	2470.4	3010.3	3156.1	3841.8	3640.1	3615.3	4094.8	4633.8	5012.3	5012.3
40°	2329.2	2465.8	2793.1	3065.3	4079.2	4028.8	3872.9	4306.5	4986.7	5349.7	5314.8
42.5°	2339.3	2526.3	2526.3	2869.2	4129.6	4411.9	4230.4	4548.5	5425.8	5652.2	5561.4
45°	2420.0	2551.1	2359.5	2621.7	3943.5	4629.2	4498.1	4709.8	5521.1	5708.1	5657.7
47.5°	2500.7	2571.2	2278.8	2450.2	3484.2	4684.2	4508.2	4613.6	5345.1	5682.4	5652.2
50°	2611.6	2591.4	2218.3	2344.8	3065.3	4457.8	4316.6	4553.1	5208.5	5692.5	5738.3
52.5°	2893.9	2697.8	2153.2	2274.2	2899.4	4018.7	4477.9	4633.8	5244.2	5728.2	5783.2
55°	3146.0	2778.4	2062.5	2213.8	2808.7	3635.5	4825.3	4805.2	5500.9	6015.2	6126.1
57.5°	2924.2	2637.2	1961.7	2167.9	2738.1	3433.8	4996.8	5077.4	6282.8	6600.0	6741.2
60°	2742.7	2465.8	1911.2	2133.1	2687.7	3292.7	4966.5	5718.2	7134.4	7255.4	7301.2
62.5°	2571.2	2365.0	1850.8	2087.2	2546.5	3191.8	5047.2	6438.7	8279.3	8597.4	8622.2
65°	2329.2	2278.8	1774.7	2036.8	2450.2	3151.5	5037.1	7124.3	8662.5	9055.8	9051.2
67.5°	2026.8	2067.1	1719.7	2022.2	2365.0	3156.1	5052.7	7386.5	9595.7	10452.8	10588.4
70°	1512.5	1562.9	1562.9	1981.8	2258.7	3004.8	4684.2	6761.3	11763.6	12892.9	12858.1
72.5°	978.1	998.2	1361.2	1683.9	1552.8	1790.2	3347.7	5435.8	13211.0	13397.1	12368.6
75°	463.8	494.1	741.6	660.9	524.3	761.8	2944.3	5203.9	10638.8	9751.5	8496.6
77.5°	131.1	146.7	257.6	211.8	201.7	388.7	2127.6	3514.5	4800.6	4215.8	3883.0
80°	40.3	40.3	76.1	86.2	96.2	191.6	761.8	933.2	1155.0	1139.4	1250.3
82.5°	0.0	0.0	5.5	30.2	35.8	55.9	116.4	156.8	187.0	242.0	292.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	15.6	25.7	35.8
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°	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4	11930.4
2.5°	11410.7	11420.8	11420.8	11440.9	11440.9	11516.1	11501.4	11572.0	11576.6	11576.6
5°	10306.1	10306.1	10281.3	10255.7	10215.3	10251.1	10210.8	10271.2	10296.0	10296.0
7.5°	9313.3	9227.2	9116.2	8995.2	8849.5	8773.4	8662.5	8668.0	8662.5	8682.7
10°	8163.8	8067.6	7931.9	7729.3	7523.1	7396.6	7265.5	7235.2	7250.8	7260.9
12.5°	7089.5	6993.2	6867.7	6721.0	6484.5	6317.7	6182.0	6176.5	6202.2	6182.0
15°	6438.7	6232.4	6075.7	5904.2	5718.2	5561.4	5420.2	5405.6	5395.5	5395.5
17.5°	6534.9	6146.2	5662.2	5304.8	5137.9	5082.9	4871.2	4805.2	4750.2	4730.0
20°	7351.7	6625.7	5652.2	4966.5	4719.9	4623.7	4422.0	4336.8	4220.3	4185.5
22.5°	8305.0	7053.8	5647.6	4754.8	4377.1	4230.4	4038.8	3917.8	3761.1	3730.8
25°	8067.6	6963.0	5496.3	4553.1	4129.6	3953.6	3791.3	3579.6	3363.2	3337.6
27.5°	7049.2	6363.5	5208.5	4316.6	3872.9	3756.5	3615.3	3367.8	3080.9	3035.1
30°	5980.3	5546.8	4760.2	3943.5	3625.4	3585.1	3454.0	3146.0	2883.8	2833.4
32.5°	5405.6	5062.8	4356.9	3640.1	3322.9	3322.9	3176.2	2984.7	2748.2	2692.2
35°	4966.5	4719.9	4135.1	3534.7	3333.0	3307.3	3010.3	2778.4	2596.9	2561.2
37.5°	4986.7	4669.5	4069.1	3564.9	3468.7	3398.1	2899.4	2617.1	2450.2	2420.0
40°	5238.8	4916.1	4195.6	3706.1	3720.8	3484.2	2772.9	2465.8	2334.8	2309.1
42.5°	5470.7	5127.8	4377.1	3933.4	4004.0	3539.2	2627.2	2324.7	2208.2	2198.2
45°	5551.3	5178.2	4502.7	4155.2	4180.0	3478.8	2486.0	2183.5	2062.5	2067.1
47.5°	5546.8	5168.2	4518.2	4331.2	4276.2	3347.7	2354.9	2042.3	1931.4	1905.8
50°	5692.5	5214.0	4457.8	4250.6	4240.5	3151.5	2233.9	1905.8	1790.2	1764.6
52.5°	5773.2	5279.1	4588.8	4286.3	4018.7	2934.2	2117.5	1774.7	1649.1	1633.5
55°	6176.5	5480.8	4760.2	4447.7	3791.3	2758.2	2036.8	1669.2	1552.8	1542.8
57.5°	6831.9	5954.7	4972.0	4609.0	3589.7	2617.1	1951.6	1573.0	1477.7	1462.1
60°	7351.7	6464.3	5430.3	4734.6	3438.4	2506.2	1891.1	1512.5	1401.6	1401.6
62.5°	8672.6	7537.8	6081.2	5022.4	3347.7	2369.6	1835.2	1477.7	1290.7	1310.8
65°	9232.7	8249.1	6589.9	5218.6	3317.4	2314.6	1760.0	1452.0	1175.2	1159.6
67.5°	10769.9	9509.5	7250.8	5274.5	3252.3	2193.6	1633.5	1356.7	998.2	937.8
70°	12519.8	10759.8	7547.8	5158.1	3141.4	2057.0	1477.7	1134.8	796.6	736.1
72.5°	11576.6	9878.0	6327.8	3877.5	2036.8	1437.3	1215.5	786.5	524.3	514.2
75°	8299.5	7942.0	5314.8	3191.8	1149.5	499.6	443.7	439.1	352.9	363.0
77.5°	4200.2	4709.8	3635.5	2395.2	761.8	211.8	131.1	146.7	221.8	231.9
80°	1532.7	1951.6	1754.5	1300.8	449.2	136.6	70.6	50.4	66.0	80.7
82.5°	363.0	459.2	443.7	368.5	136.6	35.8	20.2	5.5	5.5	10.1
85°	30.2	35.8	20.2	5.5	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)