

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: 769017_350MP

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769017_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-HS
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-TYPE I
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: 19923.2 lumens
Efficiency: 60.4%
Efficacy: 50.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

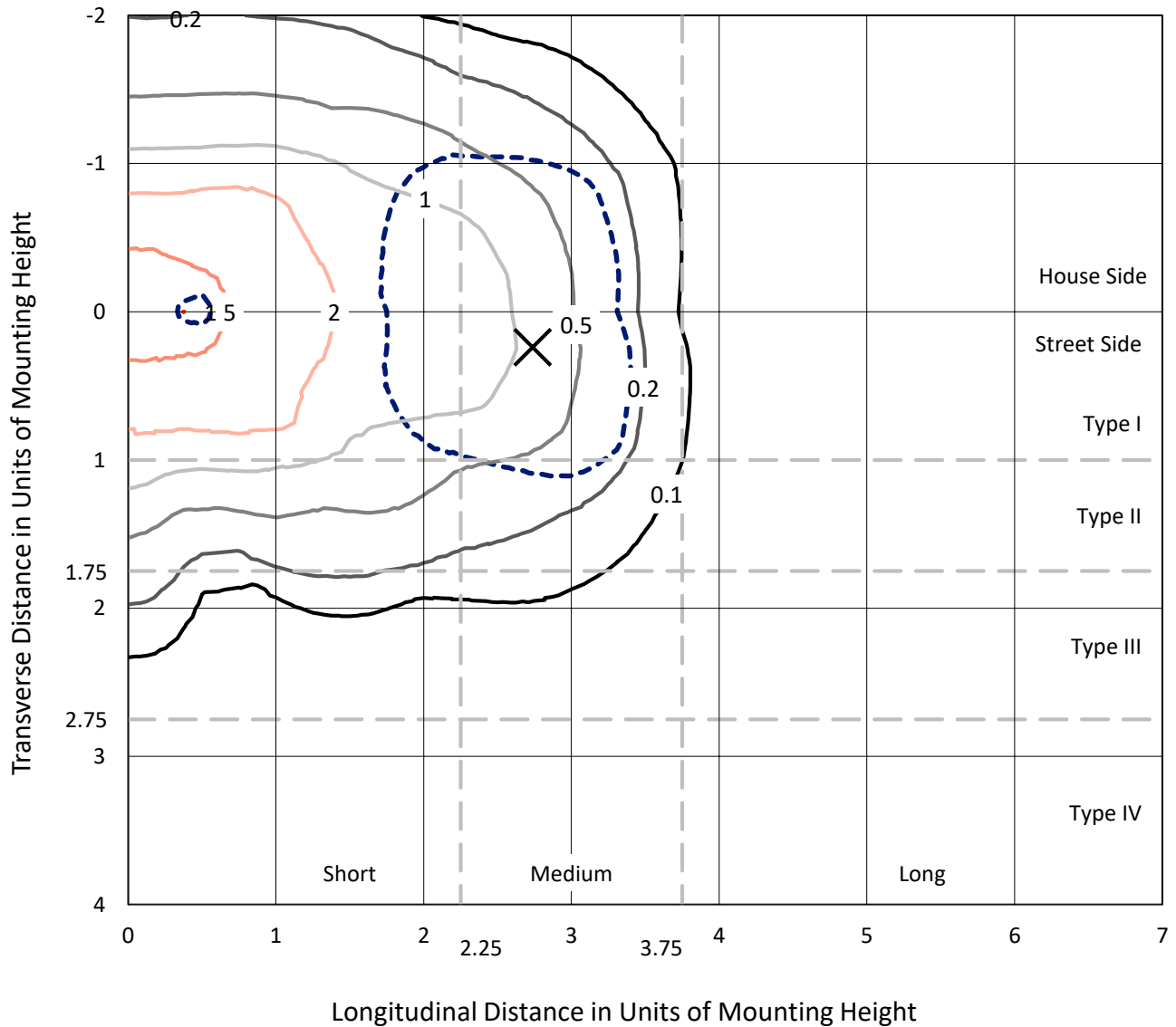
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

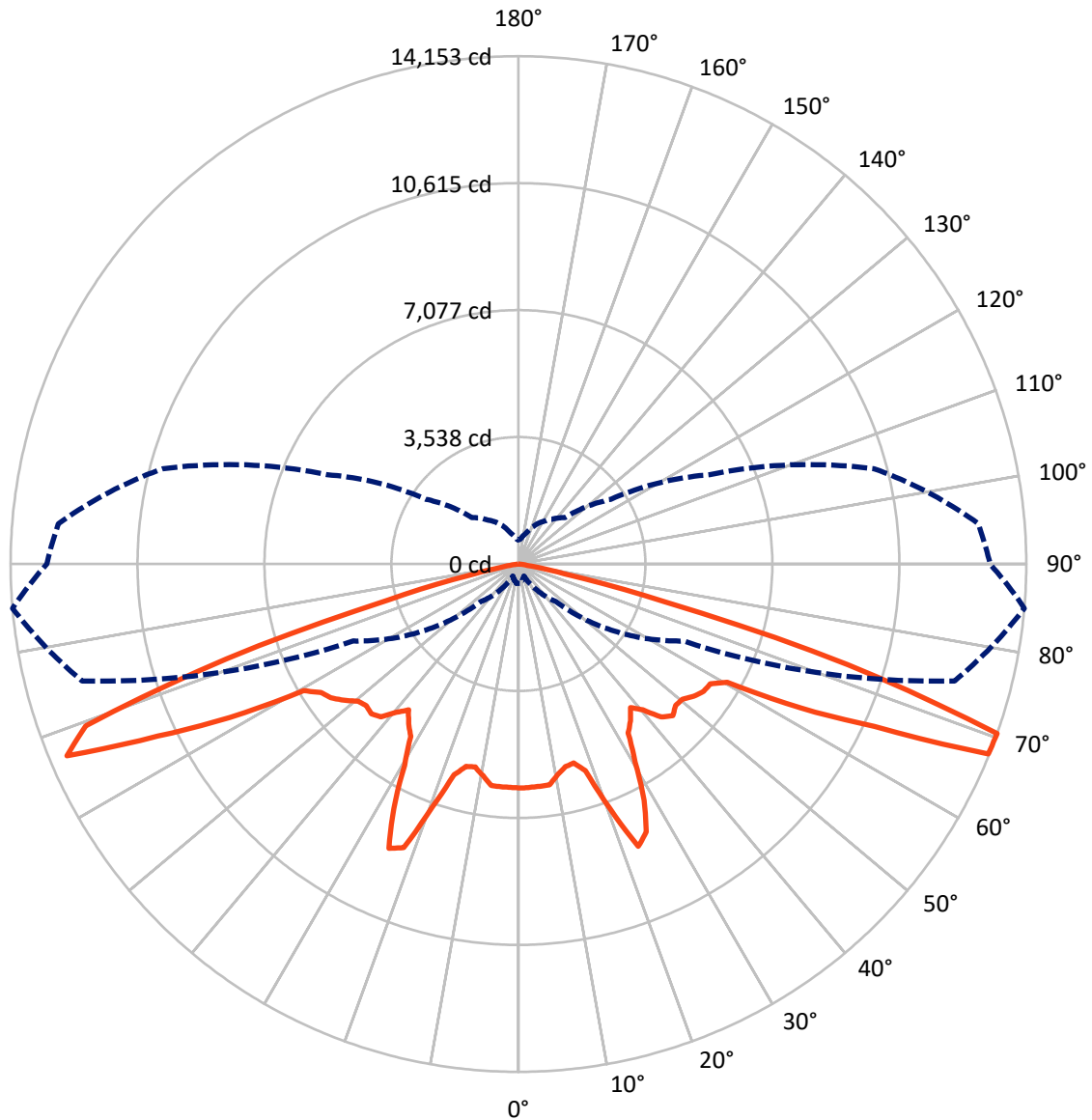
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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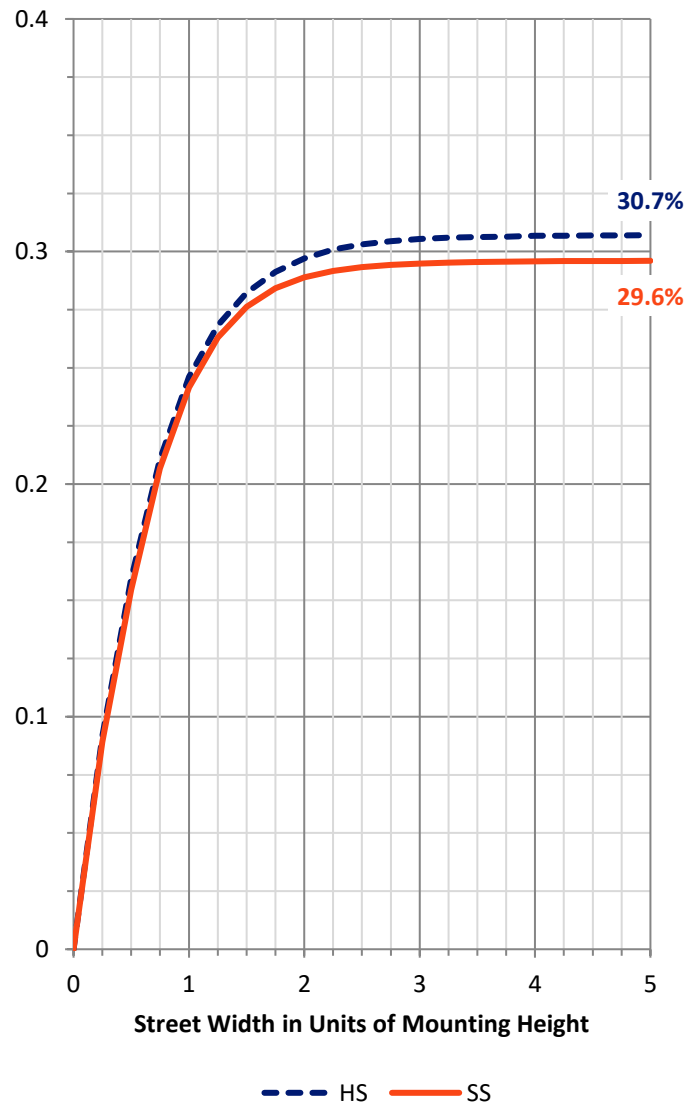
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10173.8	0.0	10173.8
	% Lamp	30.8	0.0	30.8
Street Side	Lumens	9749.3	0.0	9749.3
	% Lamp	29.5	0.0	29.5
Total	Lumens	19923.2	0.0	19923.2
	% Lamp	60.4	0.0	60.4

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	569.6	2.9	1.7
10°-20°	1459.0	7.3	4.4
20°-30°	2223.6	11.2	6.7
30°-40°	2520.6	12.7	7.6
40°-50°	3181.3	16.0	9.6
50°-60°	3533.0	17.7	10.7
60°-70°	4383.4	22.0	13.3
70°-80°	2013.1	10.1	6.1
80°-90°	39.6	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°	19923.2	100.0	60.4
0°-180°	19923.2	100.0	60.4



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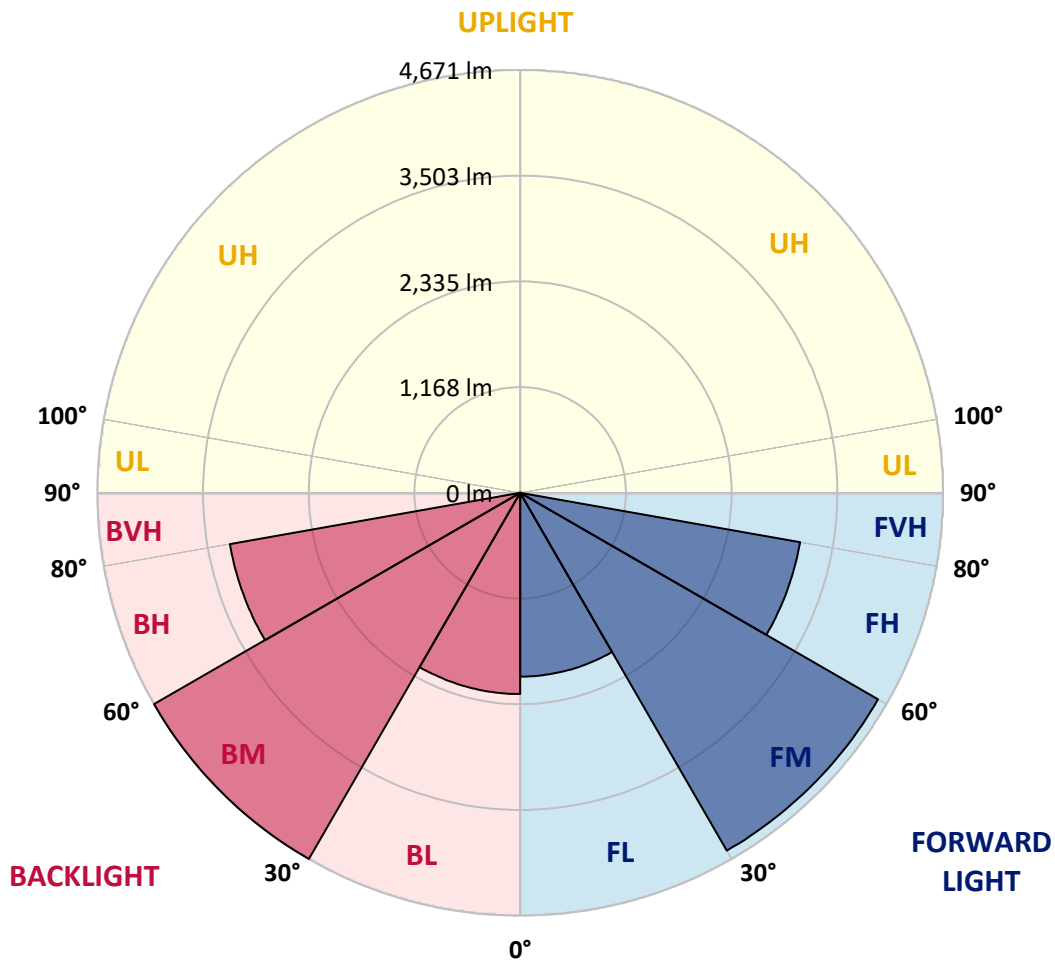
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2030.0	6.2			
FM	(30°-60°)	4564.2	13.8			
FH	(60°-80°)	3140.3	9.5			G2/5000
FVH	(80°-90°)	14.9	0.0			G1/100
BL	(0°-30°)	2222.3	6.7	B3/2500		
BM	(30°-60°)	4670.6	14.2	B3/5000		
BH	(60°-80°)	3256.2	9.9	B4/5000		G4/5000
BVH	(80°-90°)	24.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13076.8	39.6			

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°	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5
2.5°	6141.7	6136.2	6146.2	6171.9	6206.8	6232.4	6232.4	6237.0	6232.4	6232.4	6232.4
5°	5788.8	5788.8	5813.5	5869.4	5960.2	6020.7	6091.2	6151.8	6202.2	6222.3	6232.4
7.5°	5345.1	5355.2	5410.2	5506.4	5621.9	5753.0	5874.0	6005.1	6126.1	6216.8	6232.4
10°	4931.7	4926.2	4982.1	5097.6	5289.2	5541.2	5788.8	5843.8	5894.2	5970.2	5990.4
12.5°	4508.2	4522.8	4578.8	4699.8	4926.2	5228.7	5466.1	5601.8	5712.7	5798.8	5819.0
15°	4094.8	4109.4	4215.8	4391.8	4613.6	4805.2	5022.4	5309.3	5546.8	5753.0	5829.1
17.5°	3680.4	3690.5	3841.8	4089.2	4256.1	4437.6	4714.4	5218.6	5692.5	6050.9	6141.7
20°	3267.0	3297.2	3474.2	3690.5	3903.2	4104.8	4457.8	5228.7	6524.8	7265.5	7315.9
22.5°	3014.9	3035.1	3196.4	3433.8	3690.5	3973.8	4341.3	5264.4	7124.3	8551.6	8778.9
25°	2873.8	2889.3	3004.8	3297.2	3619.9	3968.2	4336.8	5248.8	6867.7	8269.2	8698.2
27.5°	2793.1	2803.2	2994.8	3277.1	3680.4	4034.2	4457.8	5365.2	6444.2	7462.6	7694.5
30°	2712.4	2742.7	3186.3	3347.7	3685.9	3883.0	4205.7	5032.5	5672.3	6408.4	6569.8
32.5°	2621.7	2692.2	3383.4	3333.0	3655.7	3650.2	3786.8	4377.1	5062.8	5617.3	5722.8
35°	2571.2	2611.6	3413.7	3337.6	3883.0	3817.0	3796.8	4084.7	4719.9	5375.3	5445.9
37.5°	2591.4	2631.8	3135.9	3171.7	4014.1	4175.4	4034.2	4145.2	4694.2	5077.4	5133.3
40°	2641.8	2641.8	2702.3	2914.1	3877.5	4609.0	4411.9	4417.4	4951.8	5339.6	5375.3
42.5°	2621.7	2556.6	2430.1	2712.4	3559.4	4966.5	4906.0	4901.4	5546.8	5829.1	5763.1
45°	2530.9	2450.2	2254.1	2520.8	3226.7	4946.3	5349.7	5324.9	5904.2	6030.8	5894.2
47.5°	2450.2	2379.7	2117.5	2354.9	3000.2	4598.9	5577.0	5405.6	5702.6	5894.2	5823.6
50°	2359.5	2309.1	1956.2	2198.2	2869.2	4215.8	5869.4	5329.5	5551.3	5919.8	5904.2
52.5°	2218.3	2127.6	1729.8	2036.8	2762.8	3927.9	6161.8	5339.6	5672.3	6126.1	6192.1
55°	1986.4	1855.3	1431.8	1780.2	2627.2	3595.2	5829.1	5440.4	6156.3	6262.7	6368.1
57.5°	1845.2	1729.8	1139.4	1441.9	2496.1	3267.0	5062.8	5309.3	6438.7	6303.0	6448.8
60°	1663.8	1562.9	882.8	1119.2	2365.0	3065.3	4629.2	5294.7	6579.8	6686.2	6811.8
62.5°	1401.6	1320.9	681.1	832.3	2057.0	2934.2	4972.0	5974.8	7896.2	8833.9	8940.2
65°	1210.0	1165.1	564.7	570.2	1749.9	2808.7	5143.4	6640.3	9549.8	10911.1	10931.2
67.5°	937.8	917.6	499.6	443.7	1346.6	2546.5	4568.7	6192.1	11890.1	14123.1	13810.5
70°	544.5	544.5	453.8	368.5	867.2	1482.2	3256.9	5077.4	12585.8	14153.3	13145.0
72.5°	272.2	272.2	403.3	262.2	373.1	691.2	3035.1	4941.8	9646.1	9600.2	8390.2
75°	121.0	116.4	262.2	161.3	201.7	413.4	2445.7	3847.2	4800.6	4200.2	3438.4
77.5°	50.4	55.9	110.9	80.7	116.4	252.1	1089.0	1391.5	1431.8	1310.8	1205.4
80°	0.0	5.5	15.6	20.2	45.8	90.8	272.2	312.6	338.2	363.0	388.7
82.5°	0.0	0.0	0.0	0.0	5.5	5.5	30.2	55.9	70.6	80.7	96.2
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°	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5
2.5°	6226.9	6216.8	6242.5	6237.0	6237.0	6242.5	6252.6	6257.2	6257.2	6252.6
5°	6226.9	6226.9	6242.5	6232.4	6226.9	6222.3	6222.3	6212.2	6196.7	6192.1
7.5°	6216.8	6171.9	6186.6	6156.3	6121.5	6081.2	6030.8	5995.0	5970.2	5970.2
10°	5980.3	5940.0	5950.1	5924.4	5884.1	5839.2	5753.0	5702.6	5682.4	5687.9
12.5°	5783.2	5712.7	5722.8	5712.7	5621.9	5541.2	5466.1	5390.0	5375.3	5375.3
15°	5823.6	5652.2	5581.6	5445.9	5369.8	5248.8	5153.5	5082.9	5072.8	5072.8
17.5°	6141.7	5879.5	5476.2	5158.1	5006.8	4931.7	4825.3	4760.2	4740.1	4740.1
20°	7174.8	6519.3	5627.4	4982.1	4730.0	4613.6	4488.0	4442.2	4377.1	4356.9
22.5°	8521.3	7225.2	5788.8	4845.5	4472.4	4311.1	4175.4	4129.6	4014.1	3983.8
25°	8708.3	7396.6	5768.6	4734.6	4301.0	4159.8	4014.1	3872.9	3696.0	3670.3
27.5°	7648.7	6827.3	5591.7	4609.0	4230.4	4125.0	3998.5	3756.5	3428.3	3377.9
30°	6444.2	5944.6	5072.8	4256.1	3988.4	4038.8	3938.0	3650.2	3242.2	3176.2
32.5°	5662.2	5329.5	4669.5	3983.8	3776.7	3837.2	3619.9	3413.7	3085.5	3014.9
35°	5395.5	5117.8	4502.7	3953.6	3897.7	3837.2	3373.3	3055.2	2863.7	2813.2
37.5°	5087.5	4976.6	4411.9	3998.5	4119.5	3872.9	3181.8	2813.2	2682.2	2662.0
40°	5355.2	5143.4	4543.0	4215.8	4437.6	3872.9	2994.8	2617.1	2516.2	2500.7
42.5°	5728.2	5541.2	4845.5	4568.7	4689.7	3806.9	2838.9	2480.5	2365.0	2369.6
45°	5849.2	5722.8	5127.8	4895.9	4760.2	3645.6	2687.7	2329.2	2208.2	2198.2
47.5°	5793.3	5642.1	5299.2	5168.2	4724.5	3448.5	2571.2	2218.3	2062.5	2036.8
50°	5884.1	5652.2	5400.1	5420.2	4623.7	3246.8	2465.8	2097.3	1931.4	1905.8
52.5°	6166.4	5722.8	5355.2	5566.9	4472.4	3085.5	2369.6	2002.0	1830.6	1804.9
55°	6418.5	6040.8	5500.9	5456.0	4210.2	2929.7	2274.2	1915.8	1734.3	1714.2
57.5°	6565.2	6252.6	5647.6	5279.1	3847.2	2803.2	2173.4	1800.3	1643.6	1633.5
60°	6948.3	6534.9	5793.3	5072.8	3519.1	2657.4	2072.6	1709.6	1558.3	1583.1
62.5°	9106.2	8077.7	6539.5	5097.6	3282.6	2470.4	1951.6	1628.9	1427.2	1462.1
65°	11138.4	9761.6	7245.3	5022.4	3085.5	2284.3	1770.1	1502.4	1210.0	1210.0
67.5°	13669.3	11178.8	7301.2	4548.5	2798.6	2032.2	1552.8	1290.7	998.2	947.8
70°	12868.2	10261.2	5889.6	3146.0	1835.2	1497.8	1235.7	913.0	701.2	675.6
72.5°	8547.0	7714.7	4598.9	2339.3	947.8	564.7	544.5	504.2	429.0	423.5
75°	3771.2	4225.8	2990.2	1760.0	635.2	267.7	171.4	171.4	176.9	181.5
77.5°	1411.7	1780.2	1512.5	1048.7	413.4	176.9	90.8	80.7	96.2	100.8
80°	453.8	574.8	534.4	423.5	181.5	70.6	30.2	25.7	40.3	40.3
82.5°	110.9	126.5	116.4	86.2	35.8	10.1	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)