

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: 768837_350MP

Luminaire Tested: **GSM-AM-350-MP-MT-3V-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 768837_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GSM-AM-350-MP-MT-3V-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-VERTICAL LAMP-TYPE 3 DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-28 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 24056.9 lumens
Efficiency: 65.0%
Efficacy: 60.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

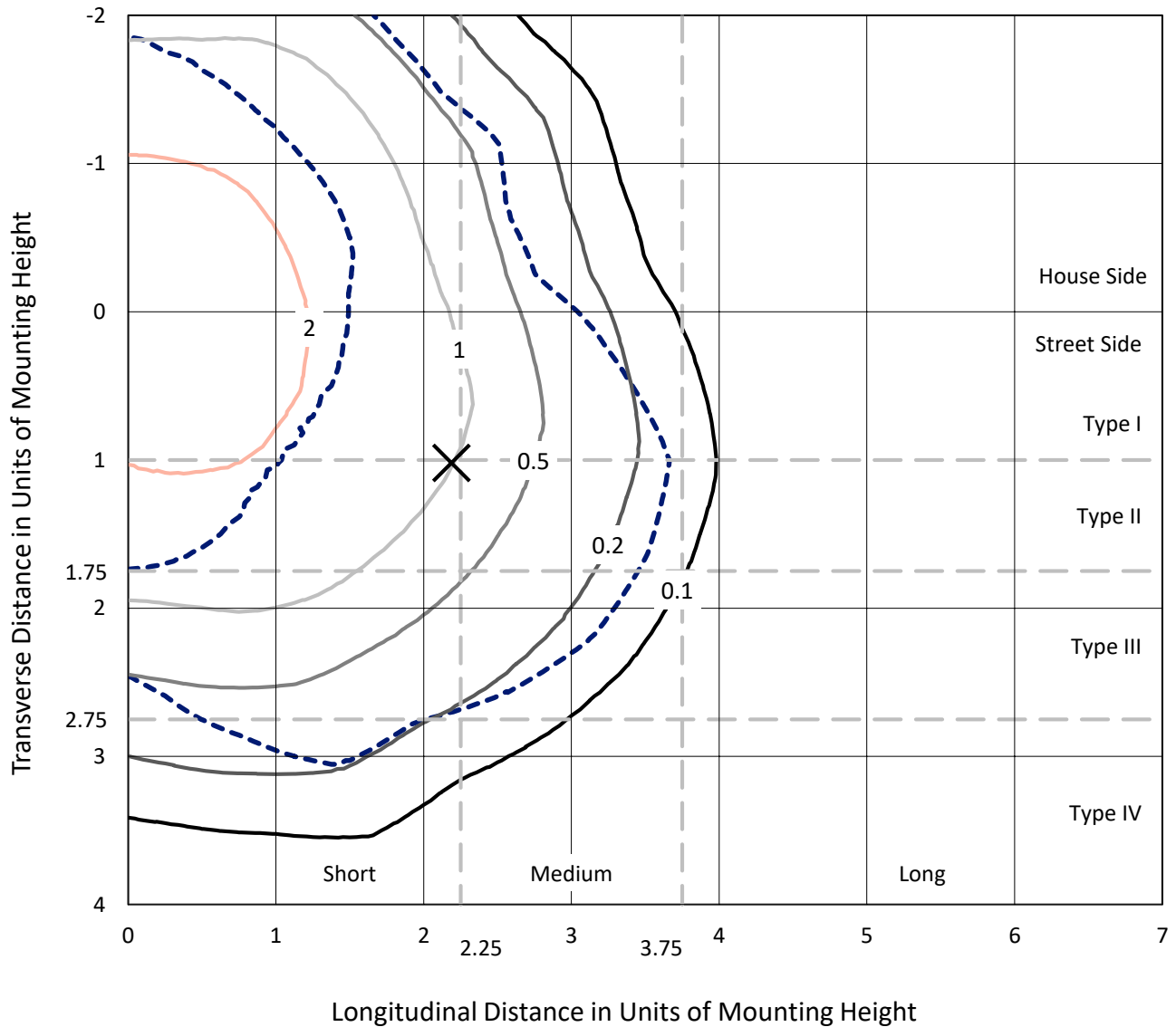
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

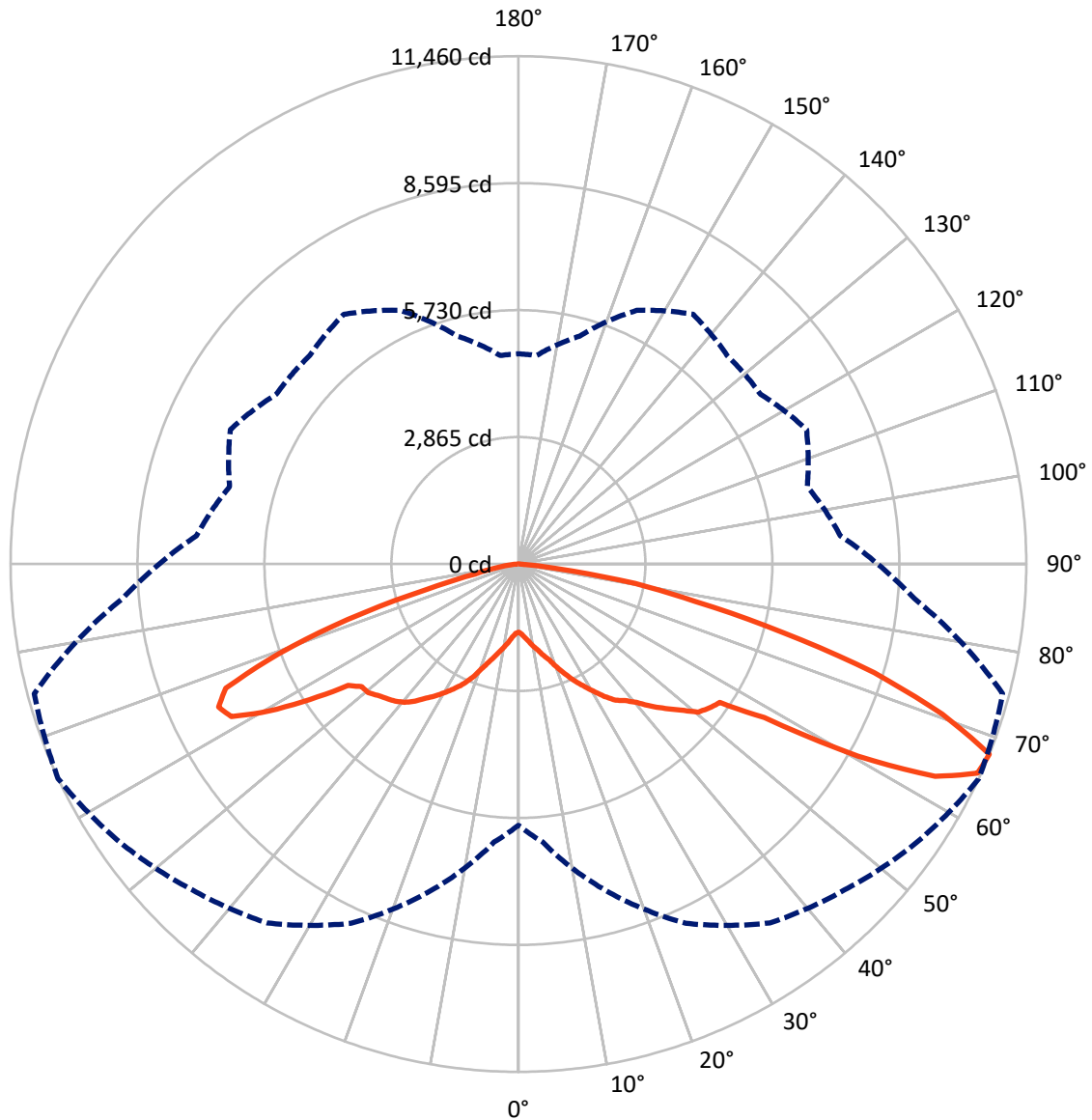
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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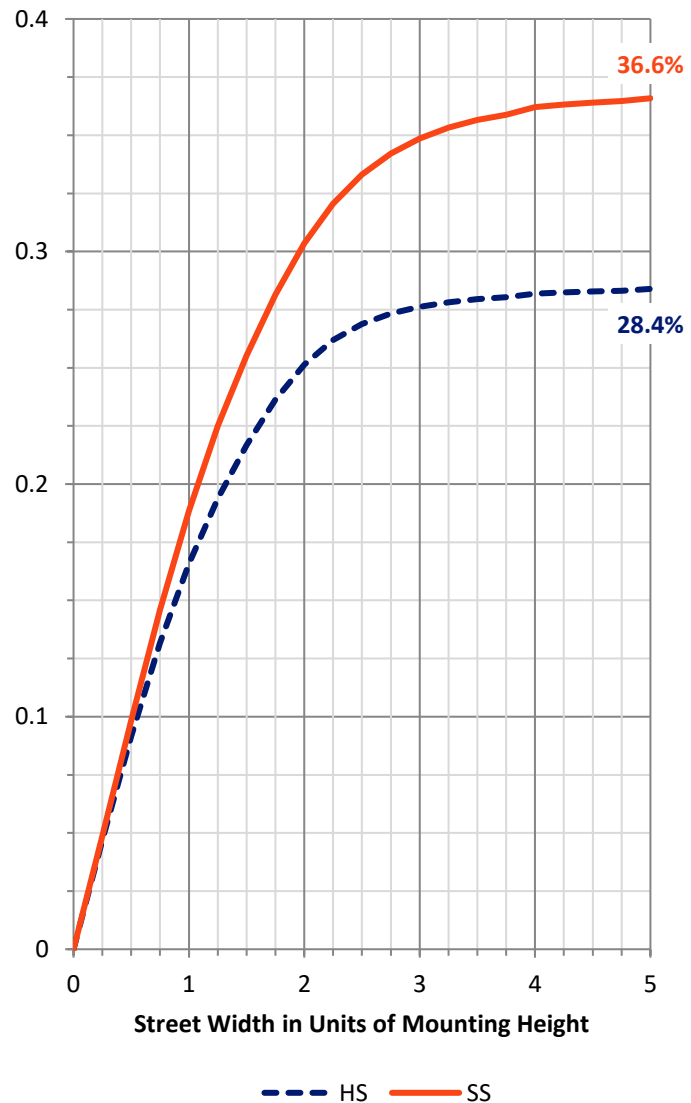
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10518.8	0.0	10518.8
	% Lamp	28.4	0.0	28.4
Street Side	Lumens	13538.1	0.0	13538.1
	% Lamp	36.6	0.0	36.6
Total	Lumens	24056.9	0.0	24056.9
	% Lamp	65.0	0.0	65.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	164.7	0.7	0.4
10°-20°	609.5	2.5	1.6
20°-30°	1299.0	5.4	3.5
30°-40°	2253.0	9.4	6.1
40°-50°	3310.2	13.8	8.9
50°-60°	4717.2	19.6	12.7
60°-70°	7792.9	32.4	21.1
70°-80°	3622.1	15.1	9.8
80°-90°	288.2	1.2	0.8
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°	24056.9	100.0	65.0
0°-180°	24056.9	100.0	65.0

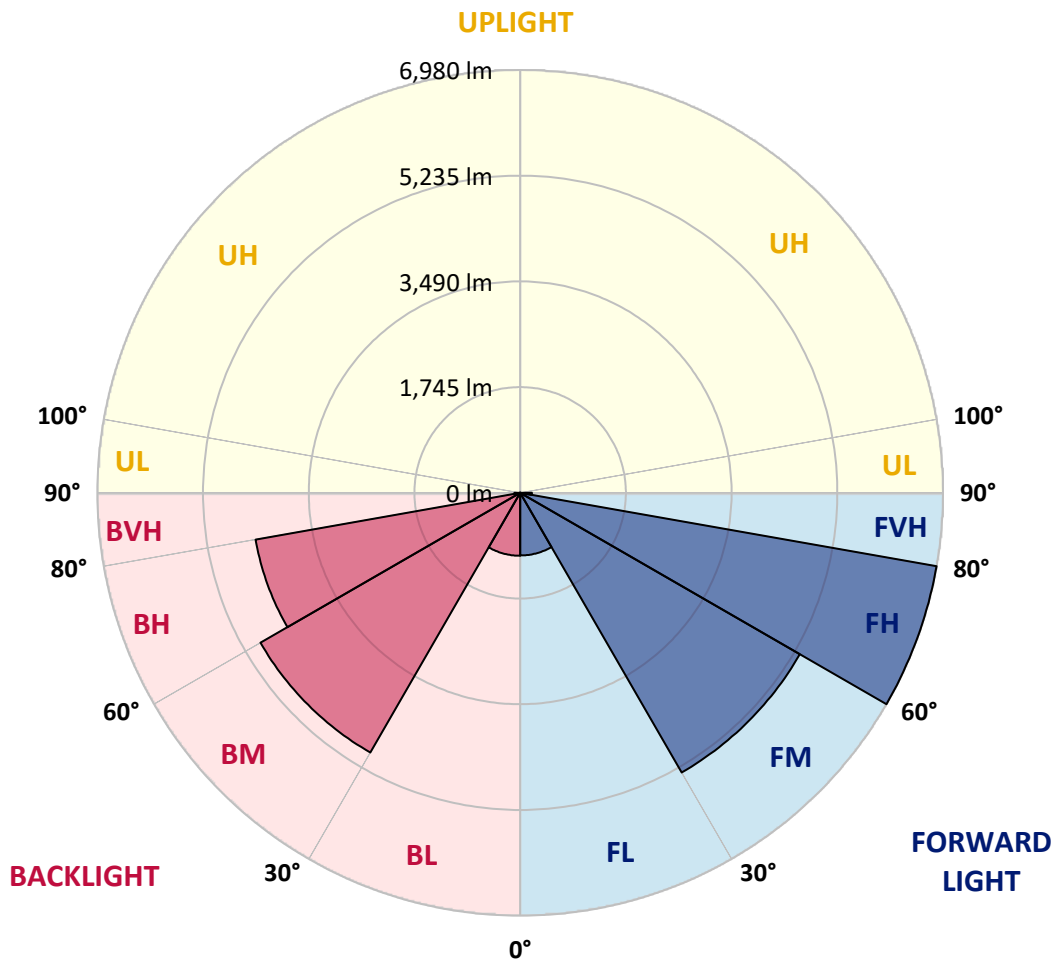


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.2	2.8			
FM	(30°-60°)	5330.6	14.4			
FH	(60°-80°)	6979.6	18.9			G3/7500
FVH	(80°-90°)	193.8	0.5			G2/225
BL	(0°-30°)	1039.1	2.8	B3/2500		
BM	(30°-60°)	4949.9	13.4	B3/5000		
BH	(60°-80°)	4435.5	12.0	B4/5000		G4/5000
BVH	(80°-90°)	94.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		12943.1	35.0			

BUG Rating: B4-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6
2.5°	1597.2	1597.2	1597.2	1602.3	1597.2	1602.3	1597.2	1592.0	1592.0	1577.6	1577.6
5°	1676.3	1681.4	1686.6	1681.4	1681.4	1681.4	1686.6	1681.4	1686.6	1676.3	1676.3
7.5°	1765.7	1765.7	1760.6	1765.7	1781.1	1781.1	1786.3	1776.0	1776.0	1770.9	1781.1
10°	1855.1	1865.4	1860.3	1865.4	1874.7	1895.2	1900.4	1895.2	1909.6	1900.4	1900.4
12.5°	1934.3	1944.6	1954.8	1969.2	1989.8	2009.3	2009.3	2004.2	2014.4	2004.2	2014.4
15°	2034.0	2048.4	2063.8	2078.2	2118.2	2137.8	2142.9	2148.1	2153.2	2148.1	2153.2
17.5°	2142.9	2148.1	2183.0	2212.8	2262.1	2281.7	2286.8	2286.8	2306.3	2306.3	2311.5
20°	2232.3	2246.7	2302.2	2371.1	2435.8	2470.8	2480.0	2485.2	2495.4	2490.3	2495.4
22.5°	2332.0	2346.4	2420.4	2515.0	2594.1	2648.6	2683.5	2693.8	2683.5	2698.9	2704.1
25°	2420.4	2446.1	2539.6	2658.9	2772.9	2827.4	2876.7	2906.6	2887.0	2897.3	2902.4
27.5°	2560.2	2579.7	2704.1	2848.0	2966.2	3030.9	3095.7	3110.1	3100.8	3080.2	3085.4
30°	2728.7	2758.6	2892.2	3071.0	3179.9	3229.3	3308.4	3323.8	3283.7	3288.9	3274.5
32.5°	2916.8	2951.8	3105.9	3274.5	3422.5	3487.2	3552.0	3562.3	3492.4	3487.2	3457.4
35°	3115.2	3145.0	3313.6	3502.7	3671.2	3736.0	3785.3	3775.0	3685.6	3641.4	3616.7
37.5°	3283.7	3294.0	3502.7	3695.9	3884.0	3929.2	3959.0	3908.6	3844.9	3839.8	3794.6
40°	3403.0	3437.9	3680.5	3894.2	4092.6	4147.1	4157.4	4108.0	4052.5	4018.6	3968.2
42.5°	3532.5	3576.7	3874.7	4102.9	4310.5	4385.5	4375.2	4385.5	4241.6	4217.0	4122.4
45°	3631.1	3715.4	4052.5	4360.9	4548.9	4643.5	4554.1	4648.6	4484.2	4375.2	4285.8
47.5°	3899.4	3978.5	4256.0	4652.8	4792.5	5005.3	4796.6	4921.0	4732.9	4757.6	4692.8
50°	3998.1	4057.7	4315.6	4712.4	5129.6	5298.2	5144.0	5253.0	4985.7	5080.3	4886.1
52.5°	3929.2	4008.3	4291.0	4652.8	5278.7	5362.9	5287.9	5396.9	5084.4	5020.7	4915.9
55°	3878.8	3938.4	4315.6	4737.0	5481.1	5561.3	5654.8	5516.1	5342.4	5238.6	5203.6
57.5°	4355.7	4390.7	4732.9	5367.1	6170.8	6483.2	6707.3	6538.7	6523.3	6260.2	6270.5
60°	5724.7	5809.0	6056.7	6791.6	7723.7	8483.3	8716.6	8805.0	8592.2	7743.3	7862.5
62.5°	6617.9	6691.9	7188.3	8170.8	9227.4	9936.6	10233.6	10551.2	10561.4	9212.0	9033.1
65°	6627.1	6805.9	7783.4	8994.1	10070.2	10373.4	10814.3	11384.7	11256.2	9143.1	8601.5
67.5°	5893.3	6300.3	7629.2	8944.8	9887.2	10403.2	10963.3	11459.7	11310.7	8969.4	8100.9
70°	4742.2	5203.6	6533.6	8011.5	8473.0	9202.7	9847.1	10149.3	9832.7	7664.1	6776.1
72.5°	3472.9	3834.6	5024.8	6503.8	6588.1	7579.9	8200.6	8399.0	8056.7	6126.6	5303.3
75°	2034.0	2222.1	3076.1	4568.5	4424.6	5362.9	6047.4	6161.5	5917.9	4222.1	3427.6
77.5°	674.2	729.7	1170.6	2639.3	2207.7	3130.6	3889.1	4092.6	3854.2	2629.1	1989.8
80°	268.2	292.9	535.5	1418.3	1096.6	2048.4	2475.9	2669.1	2336.1	1835.6	1304.2
82.5°	119.2	133.6	198.4	342.2	431.7	773.9	803.7	868.5	570.4	565.3	416.2
85°	40.1	40.1	54.5	89.4	94.6	119.2	133.6	158.3	89.4	114.1	103.8
87.5°	10.3	0.0	0.0	5.1	10.3	5.1	5.1	0.0	5.1	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°	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6
2.5°	1567.4	1567.4	1562.2	1547.8	1542.7	1547.8	1537.6	1537.6	1547.8	1537.6
5°	1676.3	1667.1	1642.4	1646.5	1632.1	1621.8	1617.7	1612.6	1612.6	1607.4
7.5°	1770.9	1760.6	1765.7	1751.3	1731.8	1721.5	1711.2	1696.9	1691.7	1686.6
10°	1900.4	1895.2	1890.1	1874.7	1845.9	1830.5	1805.8	1786.3	1786.3	1776.0
12.5°	2018.6	2009.3	2014.4	2004.2	1989.8	1949.7	1919.9	1900.4	1884.9	1874.7
15°	2153.2	2158.3	2158.3	2148.1	2132.6	2093.6	2058.6	2028.8	2014.4	2014.4
17.5°	2311.5	2311.5	2321.8	2311.5	2286.8	2257.0	2207.7	2162.4	2128.5	2123.4
20°	2495.4	2495.4	2515.0	2520.1	2485.2	2446.1	2381.4	2311.5	2267.3	2242.6
22.5°	2704.1	2708.2	2758.6	2743.1	2674.3	2629.1	2555.1	2455.4	2395.7	2381.4
25°	2906.6	2906.6	2966.2	2936.4	2862.4	2797.6	2718.5	2609.5	2544.8	2530.4
27.5°	3095.7	3100.8	3145.0	3134.7	3050.4	2966.2	2876.7	2772.9	2698.9	2678.4
30°	3259.1	3248.8	3318.7	3299.2	3248.8	3160.4	3071.0	2981.6	2897.3	2876.7
32.5°	3422.5	3422.5	3502.7	3492.4	3457.4	3392.7	3299.2	3204.6	3120.3	3105.9
35°	3581.8	3606.5	3671.2	3666.1	3660.9	3611.6	3557.1	3478.0	3403.0	3403.0
37.5°	3780.2	3815.1	3874.7	3859.3	3869.6	3839.8	3764.7	3690.7	3636.3	3631.1
40°	3968.2	4008.3	4043.3	4022.7	4022.7	3988.8	3908.6	3839.8	3804.8	3810.0
42.5°	4122.4	4176.9	4162.5	4122.4	4108.0	4057.7	3988.8	3874.7	3850.1	3839.8
45°	4276.6	4285.8	4250.9	4206.7	4187.2	4141.9	4038.1	3908.6	3859.3	3850.1
47.5°	4508.9	4405.1	4345.4	4291.0	4291.0	4206.7	4067.9	3889.1	3878.8	3829.5
50°	4732.9	4554.1	4464.7	4420.5	4464.7	4345.4	4108.0	3859.3	3829.5	3820.2
52.5°	4852.1	4519.1	4489.3	4454.4	4504.8	4385.5	4097.8	3850.1	3736.0	3690.7
55°	5184.1	4737.0	4717.5	4703.1	4712.4	4594.2	4340.3	4062.8	3889.1	3859.3
57.5°	6210.9	5640.4	5610.6	5596.2	5615.8	5436.9	5134.8	4826.4	4543.8	4543.8
60°	7485.3	6885.1	6538.7	6805.9	6940.6	6771.0	6200.6	5784.3	5566.4	5486.3
62.5°	8255.1	7485.3	7337.3	7590.1	7867.6	7748.4	7158.5	6255.1	5873.7	5824.4
65°	7748.4	7237.6	7495.6	7565.5	7659.0	7769.0	7253.0	6200.6	5615.8	5654.8
67.5°	7292.1	6746.3	7172.9	6672.3	6656.9	6875.8	6314.7	5322.9	4722.6	4742.2
70°	5803.9	5317.7	5779.2	4880.9	4831.6	5094.7	4678.4	3904.5	3601.3	3592.1
72.5°	4306.4	3780.2	4057.7	3041.2	2936.4	3095.7	2857.2	2480.0	2395.7	2411.2
75°	2416.3	2039.1	2132.6	1463.6	1393.7	1438.9	1414.2	1334.1	1245.7	1240.5
77.5°	1046.3	912.7	1002.1	882.9	888.0	898.3	882.9	838.7	803.7	793.4
80°	665.0	575.6	605.4	605.4	585.8	600.2	589.9	565.3	545.8	535.5
82.5°	337.1	307.3	312.4	322.7	307.3	298.1	298.1	277.5	263.1	258.0
85°	94.6	89.4	89.4	89.4	89.4	84.3	84.3	74.0	69.9	69.9
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)