

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: P193534

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19565 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 193
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

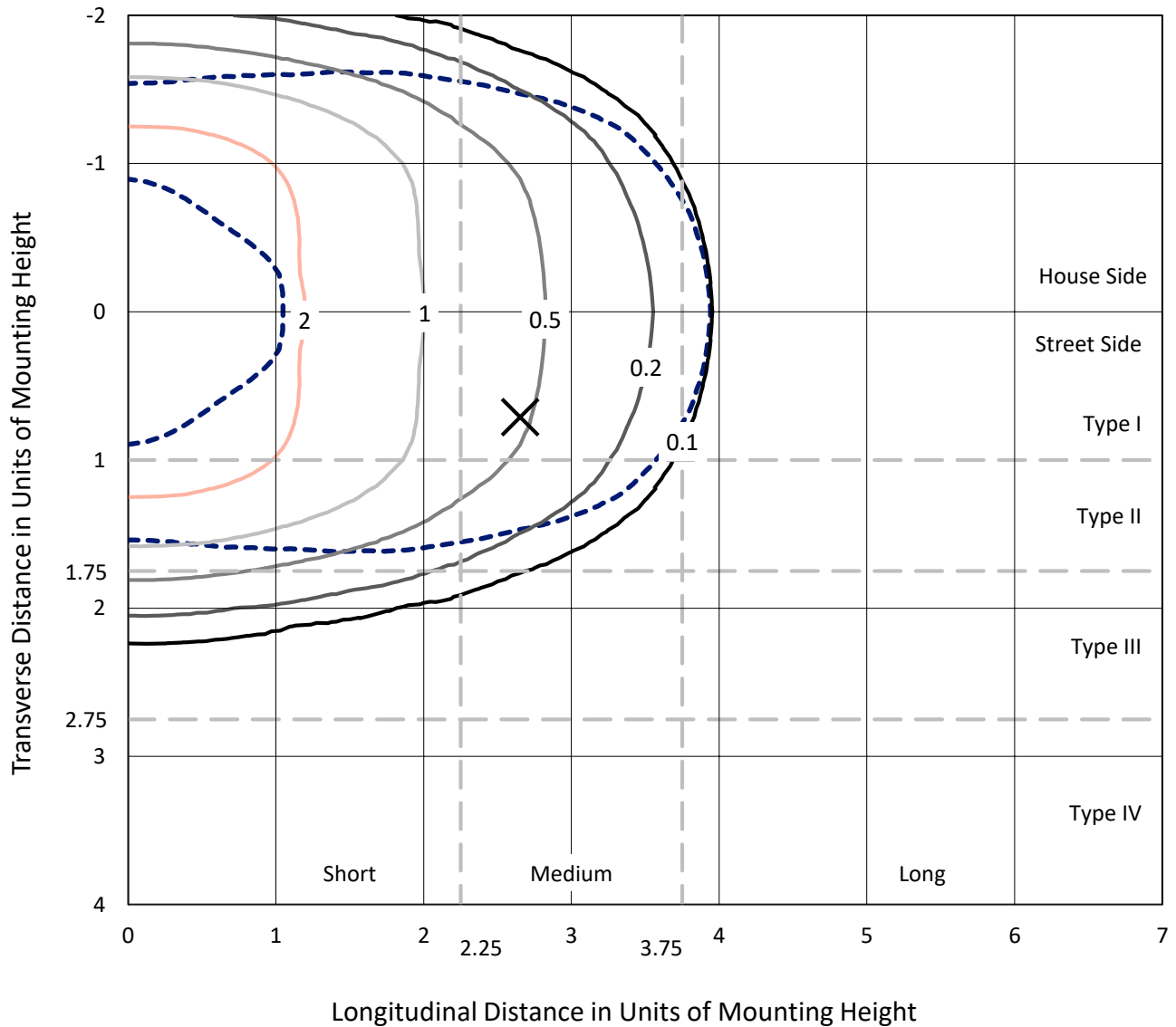


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Iso-Footcandle Lines of Horizontal Illumination

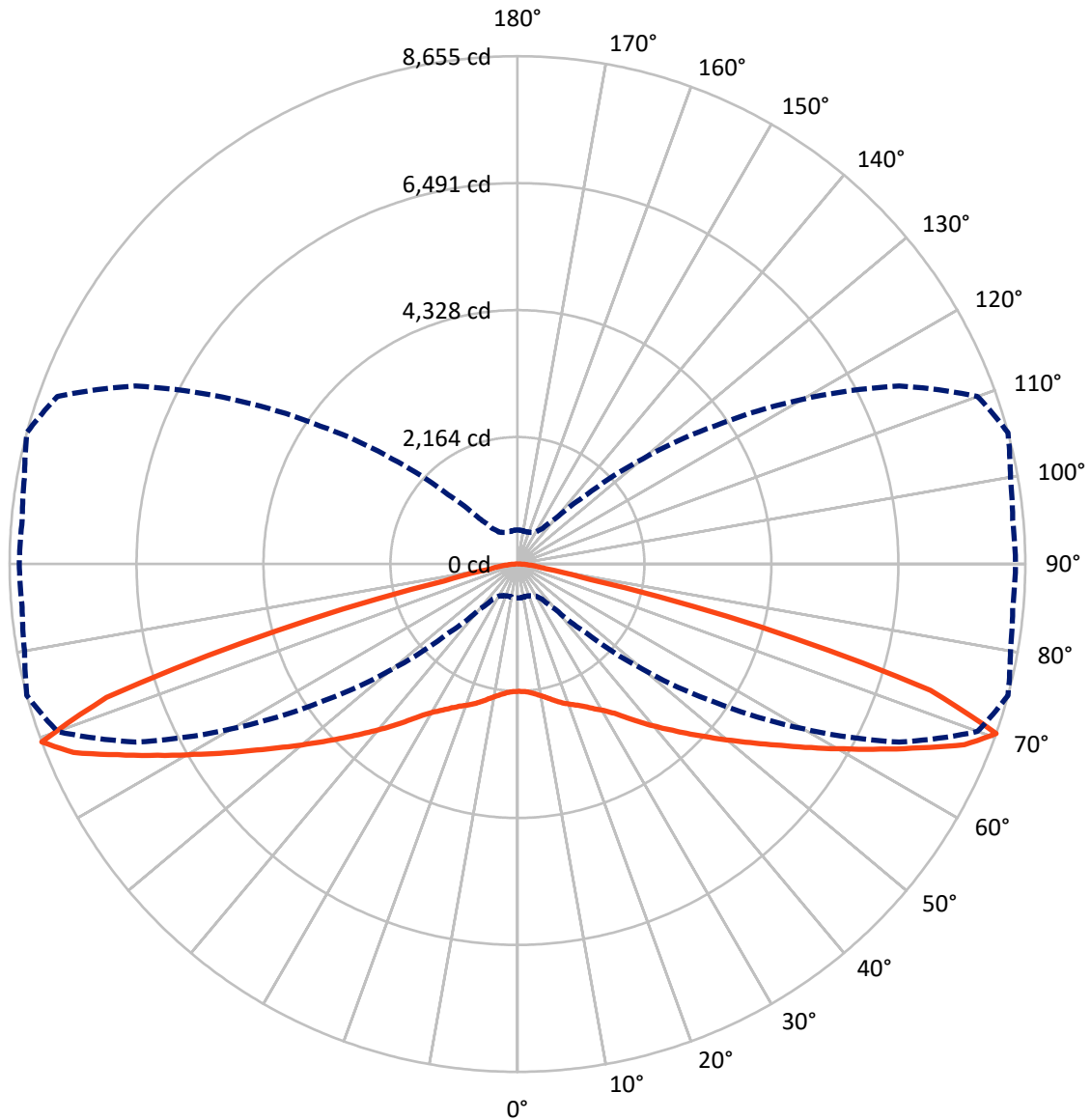
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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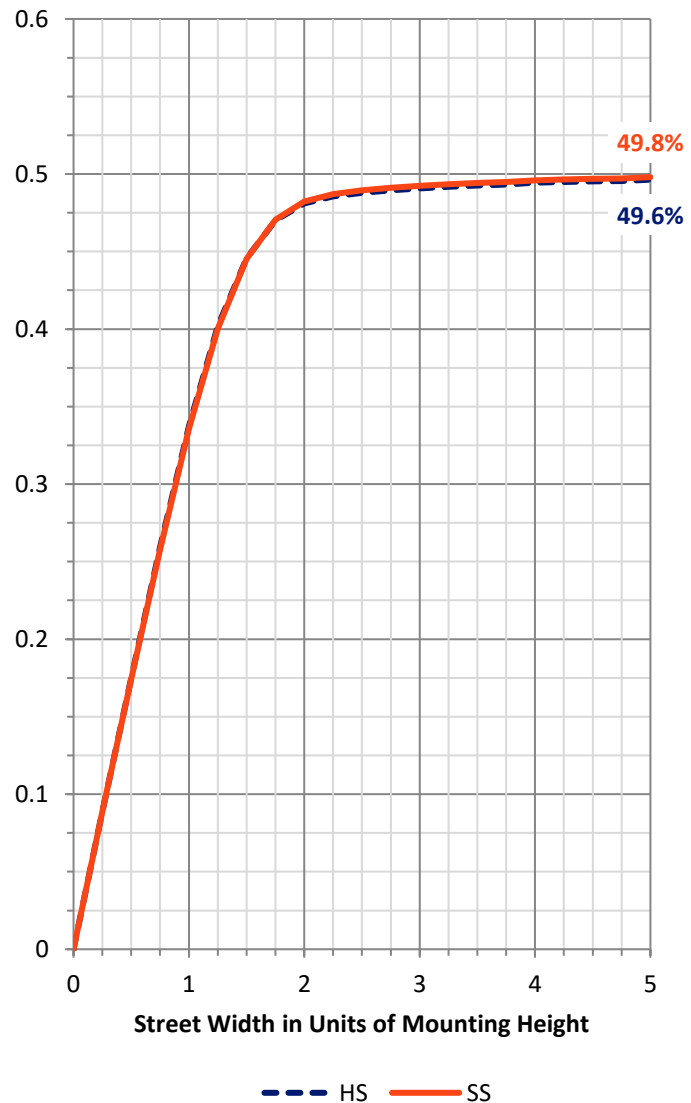
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9782.5	0.0	9782.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9782.5	0.0	9782.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19565.0	0.0	19565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	1.1
10°-20°	646.7	3.3
20°-30°	1217.2	6.2
30°-40°	2155.5	11.0
40°-50°	3604.7	18.4
50°-60°	5023.1	25.7
60°-70°	4658.1	23.8
70°-80°	1856.4	9.5
80°-90°	195.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19565.0	100.0
0°-180°	19565.0	100.0



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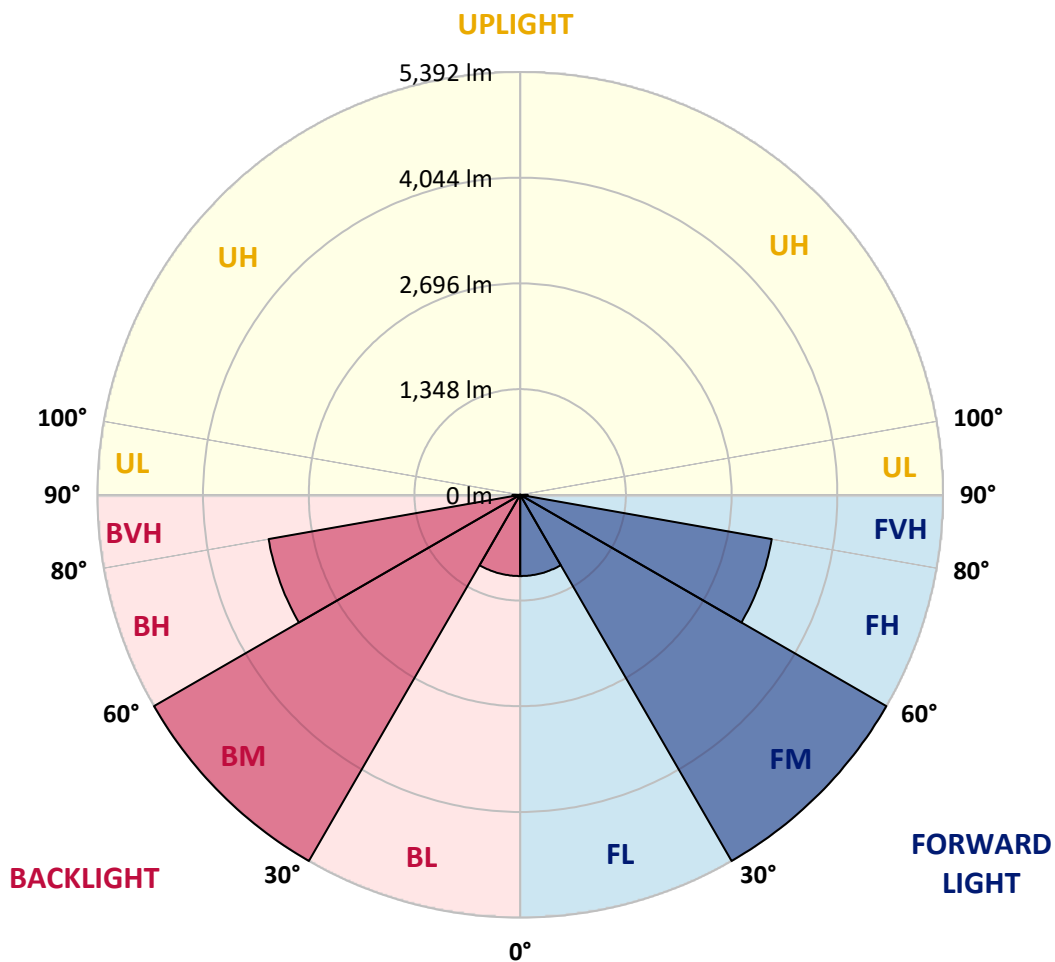
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1036.0	5.3			
FM	(30°-60°)	5391.6	27.6			
FH	(60°-80°)	3257.3	16.6			G2/5000
FVH	(80°-90°)	97.6	0.5			G1/100
BL	(0°-30°)	1036.0	5.3	B3/2500		
BM	(30°-60°)	5391.6	27.6	B4/8500		
BH	(60°-80°)	3257.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	97.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2
2.5°	2166.5	2164.7	2166.5	2165.6	2167.4	2167.4	2169.3	2173.0	2173.0	2175.8	2174.8
5°	2145.2	2144.3	2147.1	2149.9	2152.6	2158.2	2163.7	2172.1	2178.5	2183.2	2187.8
7.5°	2103.6	2103.6	2107.3	2113.8	2120.3	2132.3	2145.2	2161.9	2178.5	2192.4	2204.4
10°	2069.4	2071.3	2075.9	2087.0	2098.1	2116.6	2134.2	2158.2	2181.3	2204.4	2222.9
12.5°	2049.1	2051.9	2060.2	2076.8	2095.3	2120.3	2147.1	2177.6	2203.5	2231.2	2249.7
15°	2055.6	2057.4	2069.4	2089.8	2113.8	2145.2	2181.3	2217.4	2247.9	2277.5	2302.4
17.5°	2091.6	2094.4	2108.3	2131.4	2156.3	2193.3	2232.2	2272.9	2310.8	2344.1	2374.6
20°	2156.3	2159.1	2176.7	2201.7	2231.2	2269.2	2308.0	2350.5	2393.1	2428.2	2462.4
22.5°	2247.9	2252.5	2269.2	2294.1	2327.4	2368.1	2414.3	2459.6	2500.3	2532.7	2563.2
25°	2368.1	2378.3	2394.0	2421.7	2456.9	2493.9	2543.8	2590.0	2628.9	2659.4	2681.6
27.5°	2538.2	2552.1	2564.1	2590.9	2625.2	2660.3	2710.2	2750.9	2787.9	2817.5	2834.1
30°	2763.9	2777.7	2789.7	2815.6	2847.1	2880.4	2927.5	2963.6	2986.7	3009.8	3008.9
32.5°	3037.6	3052.4	3057.0	3084.7	3117.1	3153.1	3195.7	3216.0	3234.5	3237.3	3220.6
35°	3343.6	3351.0	3369.5	3406.5	3443.5	3473.1	3513.8	3523.9	3523.9	3510.1	3473.1
37.5°	3679.3	3683.9	3709.8	3751.4	3789.3	3819.8	3847.6	3867.9	3857.7	3828.2	3766.2
40°	4047.3	4055.6	4092.6	4129.6	4172.1	4200.8	4230.4	4234.1	4223.9	4180.5	4096.3
42.5°	4398.7	4406.1	4443.1	4501.3	4556.8	4596.6	4624.3	4629.9	4597.5	4557.7	4453.2
45°	4701.1	4720.5	4768.6	4837.0	4917.4	4973.8	5011.7	5027.5	4998.8	4947.0	4825.9
47.5°	4940.5	4960.0	5028.4	5109.8	5209.6	5301.2	5364.0	5397.3	5389.9	5351.1	5218.9
50°	5116.2	5134.7	5208.7	5308.6	5425.1	5538.8	5646.1	5725.6	5753.3	5735.8	5614.6
52.5°	5136.6	5167.1	5254.0	5388.1	5539.7	5695.1	5847.7	5982.7	6074.2	6088.1	5998.4
55°	4852.7	4883.2	5003.4	5202.2	5427.8	5681.2	5925.3	6152.8	6333.1	6425.6	6378.4
57.5°	4183.2	4237.8	4364.5	4597.5	4929.4	5308.6	5697.9	6101.9	6469.0	6714.1	6761.2
60°	3205.9	3270.6	3398.2	3646.0	4015.9	4468.0	4987.7	5585.0	6233.2	6784.3	7113.5
62.5°	2056.5	2117.5	2251.6	2467.0	2768.5	3258.6	3816.1	4525.4	5396.4	6266.5	7050.7
65°	1056.9	1090.2	1160.5	1290.8	1525.7	1891.9	2392.1	3099.5	4095.4	5168.9	6302.6
67.5°	669.5	675.9	691.7	710.2	770.3	896.9	1130.0	1571.0	2390.3	3510.1	4837.0
70°	578.8	578.8	571.4	568.7	576.1	593.6	629.7	732.3	1008.8	1666.3	2789.7
72.5°	529.8	524.3	511.3	501.2	499.3	499.3	506.7	522.4	566.8	678.7	1092.0
75°	488.2	472.5	454.9	442.9	438.3	433.7	432.7	435.5	444.8	462.3	521.5
77.5°	437.4	417.0	396.7	384.7	379.1	372.6	367.1	360.6	356.0	361.5	387.4
80°	376.3	353.2	337.5	330.1	324.6	315.3	303.3	292.2	282.0	280.2	295.9
82.5°	303.3	276.5	277.4	280.2	270.0	257.1	244.1	232.1	214.5	205.3	214.5
85°	245.0	231.2	224.7	242.3	227.5	208.1	187.7	166.4	138.7	116.5	126.7
87.5°	95.2	95.2	142.4	219.1	197.0	160.9	137.8	117.4	73.0	56.4	57.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2	2170.2
2.5°	2173.9	2175.8	2174.8	2173.9	2173.9	2173.0	2173.9	2173.9
5°	2190.6	2195.2	2195.2	2197.0	2197.0	2198.0	2198.9	2198.0
7.5°	2215.5	2223.8	2229.4	2235.9	2236.8	2237.7	2239.6	2237.7
10°	2240.5	2257.1	2269.2	2281.2	2286.7	2288.6	2290.4	2290.4
12.5°	2271.9	2295.0	2316.3	2337.6	2347.8	2353.3	2353.3	2357.0
15°	2323.7	2346.8	2371.8	2400.5	2418.0	2427.3	2430.0	2430.0
17.5°	2396.8	2417.1	2438.4	2466.1	2488.3	2500.3	2503.1	2502.2
20°	2481.8	2501.2	2513.3	2530.8	2550.3	2564.1	2567.8	2567.8
22.5°	2578.9	2590.0	2591.9	2597.4	2613.1	2631.6	2639.9	2641.8
25°	2686.2	2689.0	2681.6	2681.6	2691.7	2709.3	2717.6	2718.5
27.5°	2824.9	2811.0	2792.5	2786.0	2792.5	2812.9	2823.0	2826.7
30°	2997.8	2964.5	2922.0	2898.9	2895.2	2922.0	2940.5	2943.2
32.5°	3195.7	3147.6	3091.2	3044.0	3032.0	3048.7	3070.8	3069.9
35°	3430.5	3373.2	3304.8	3244.7	3216.9	3233.6	3265.0	3268.7
37.5°	3701.5	3626.6	3548.0	3472.2	3428.7	3433.3	3466.6	3477.7
40°	4003.8	3906.8	3807.8	3706.1	3644.1	3632.1	3672.8	3679.3
42.5°	4327.5	4202.7	4077.8	3952.1	3872.5	3854.0	3901.2	3898.4
45°	4672.4	4513.3	4367.2	4228.5	4134.2	4106.5	4145.3	4145.3
47.5°	5043.2	4847.2	4673.3	4516.1	4413.5	4373.7	4410.7	4413.5
50°	5436.2	5228.1	5023.8	4849.0	4726.0	4675.2	4723.2	4730.6
52.5°	5827.3	5624.8	5418.6	5218.9	5070.0	5008.0	5063.5	5087.6
55°	6224.0	6025.2	5828.2	5633.1	5456.5	5383.5	5442.6	5473.2
57.5°	6642.9	6458.9	6271.2	6074.2	5904.1	5790.3	5853.2	5893.9
60°	7133.9	6976.7	6781.6	6564.3	6392.3	6276.7	6312.8	6348.8
62.5°	7522.2	7583.3	7417.8	7166.2	6945.2	6797.3	6832.4	6870.3
65°	7334.5	7960.5	8107.6	7853.3	7547.2	7317.0	7302.2	7321.6
67.5°	6130.6	7346.6	8233.3	8475.6	8219.4	7899.5	7840.3	7869.0
70°	4100.9	5615.6	7180.1	8345.2	8655.0	8531.1	8472.8	8490.4
72.5°	1969.6	3270.6	4871.2	6420.0	7363.2	7795.9	7934.6	8002.1
75°	720.3	1298.2	2347.8	3537.8	4271.1	4944.2	5383.5	5562.9
77.5°	434.6	524.3	749.9	1129.0	1278.8	1431.4	1372.2	1401.8
80°	321.8	363.4	411.5	462.3	479.0	479.0	460.5	445.7
82.5°	225.6	252.4	275.6	303.3	310.7	296.8	244.1	194.2
85°	145.2	157.2	167.4	184.9	180.3	172.0	115.6	102.6
87.5°	66.6	75.8	79.5	87.8	84.1	80.4	57.3	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)