

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: P383455

Luminaire Tested: **GLEON-SA7C-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45735.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

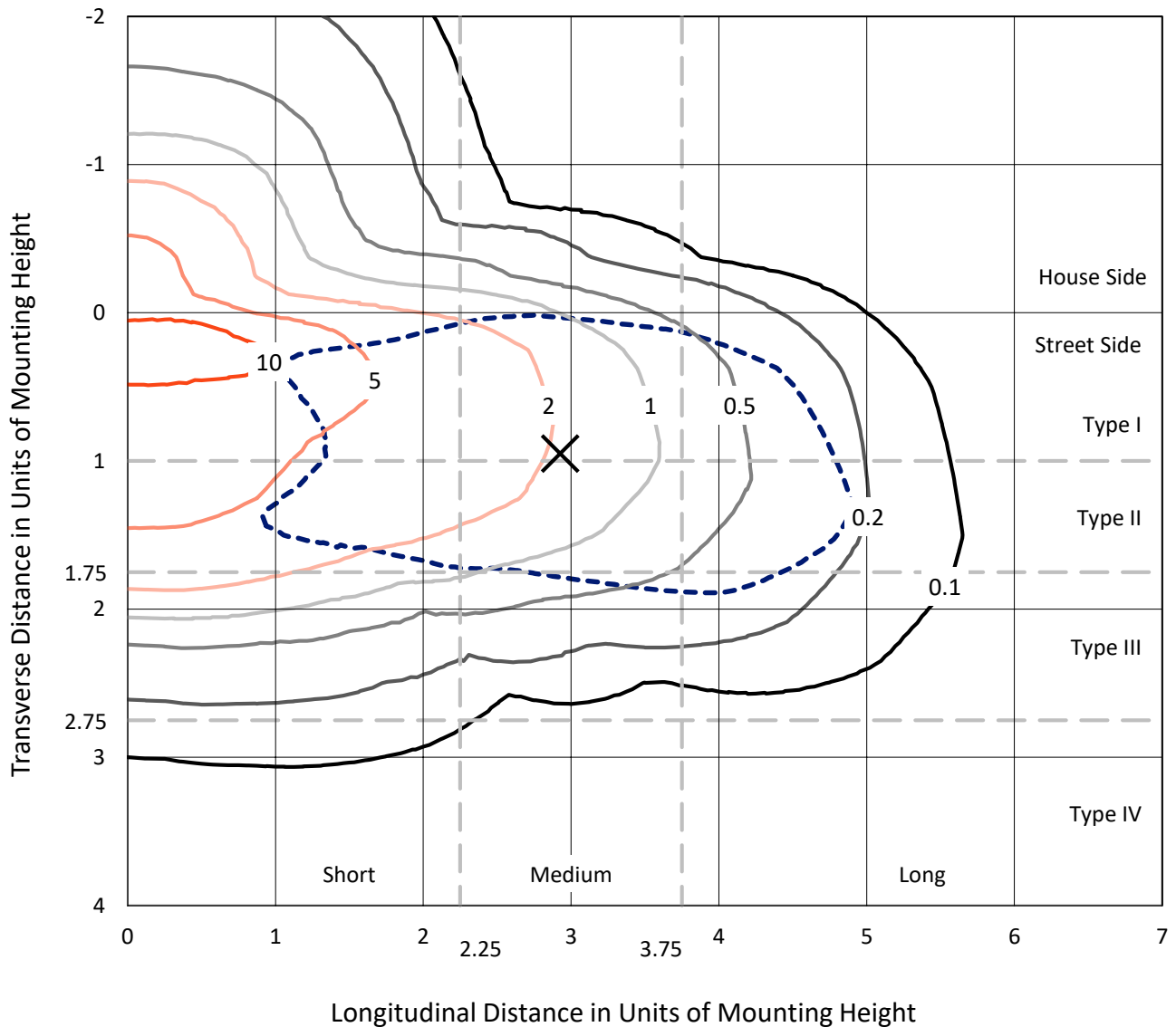
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

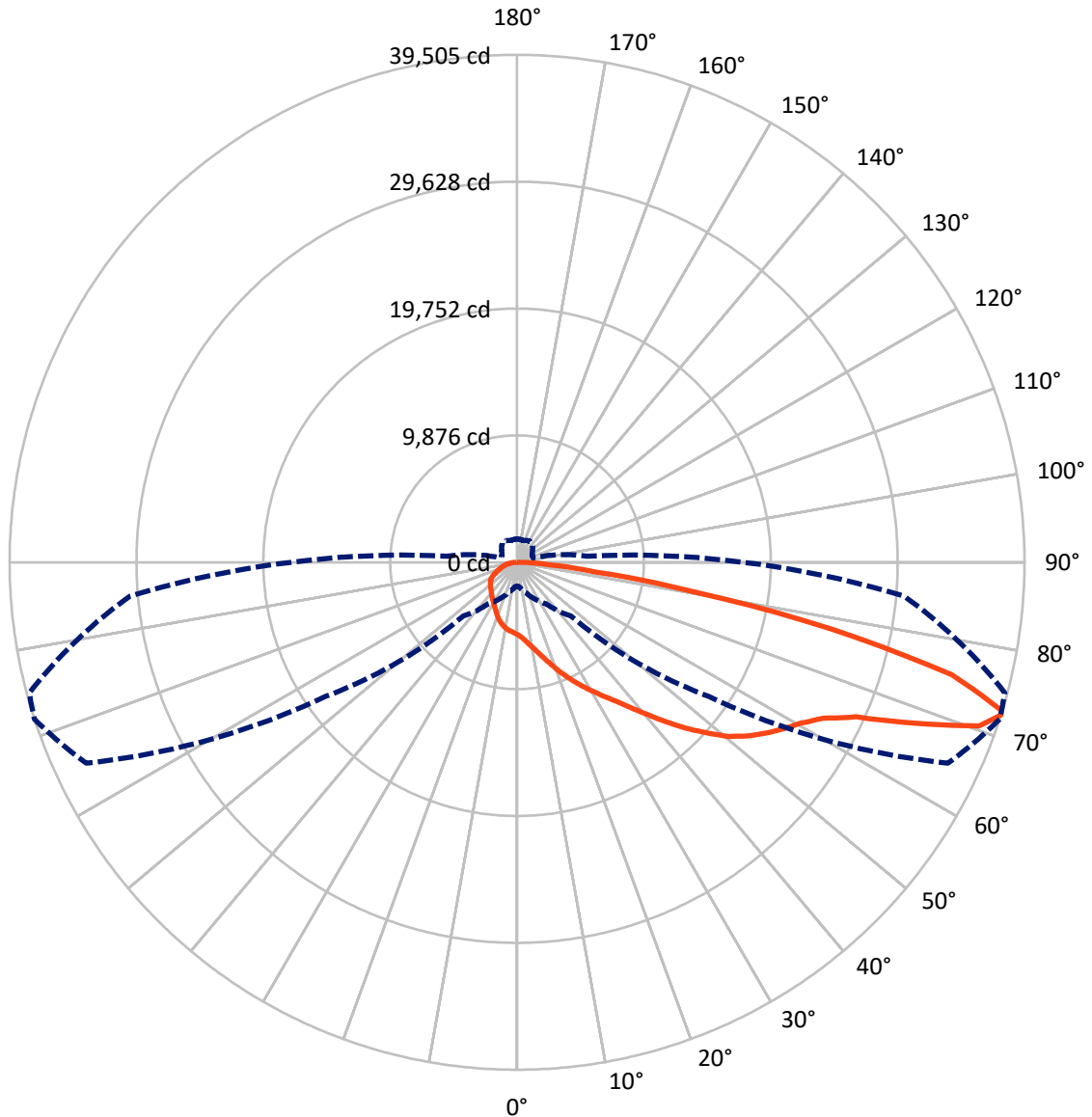
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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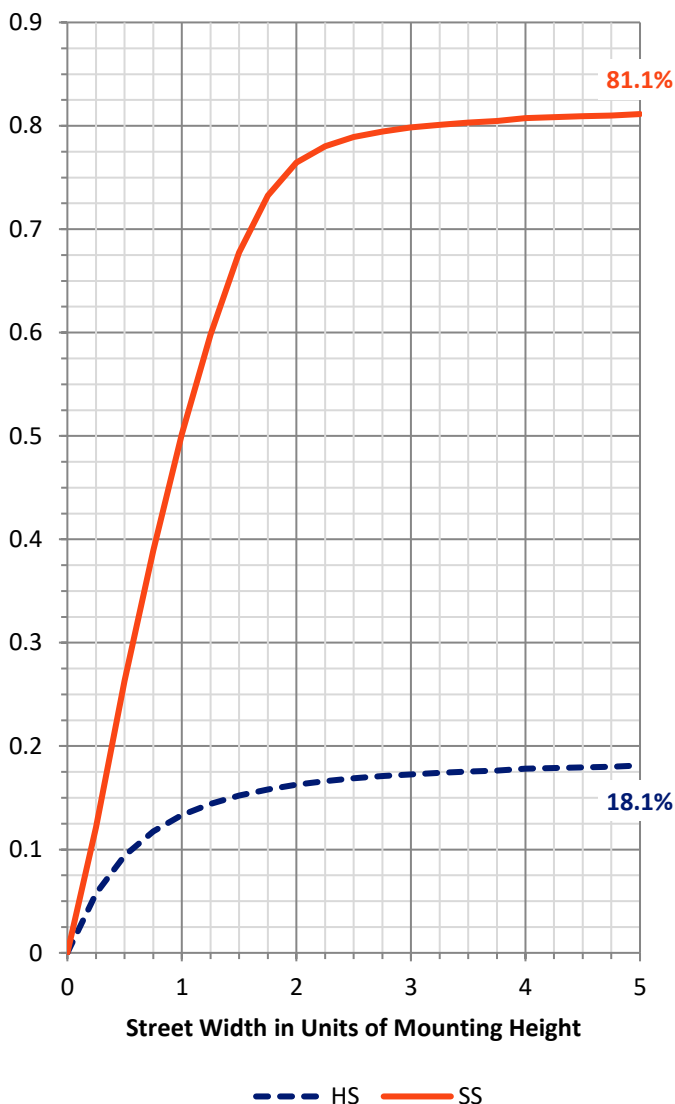
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8484.2	0.0	8484.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	37251.1	0.0	37251.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	45735.3	0.0	45735.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.8	1.2
10°-20°	1821.9	4.0
20°-30°	3192.6	7.0
30°-40°	4733.7	10.4
40°-50°	6923.3	15.1
50°-60°	9526.5	20.8
60°-70°	10605.8	23.2
70°-80°	7186.5	15.7
80°-90°	1181.2	2.6
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°	45735.3	100.0
0°-180°	45735.3	100.0

Coefficient of Utilization

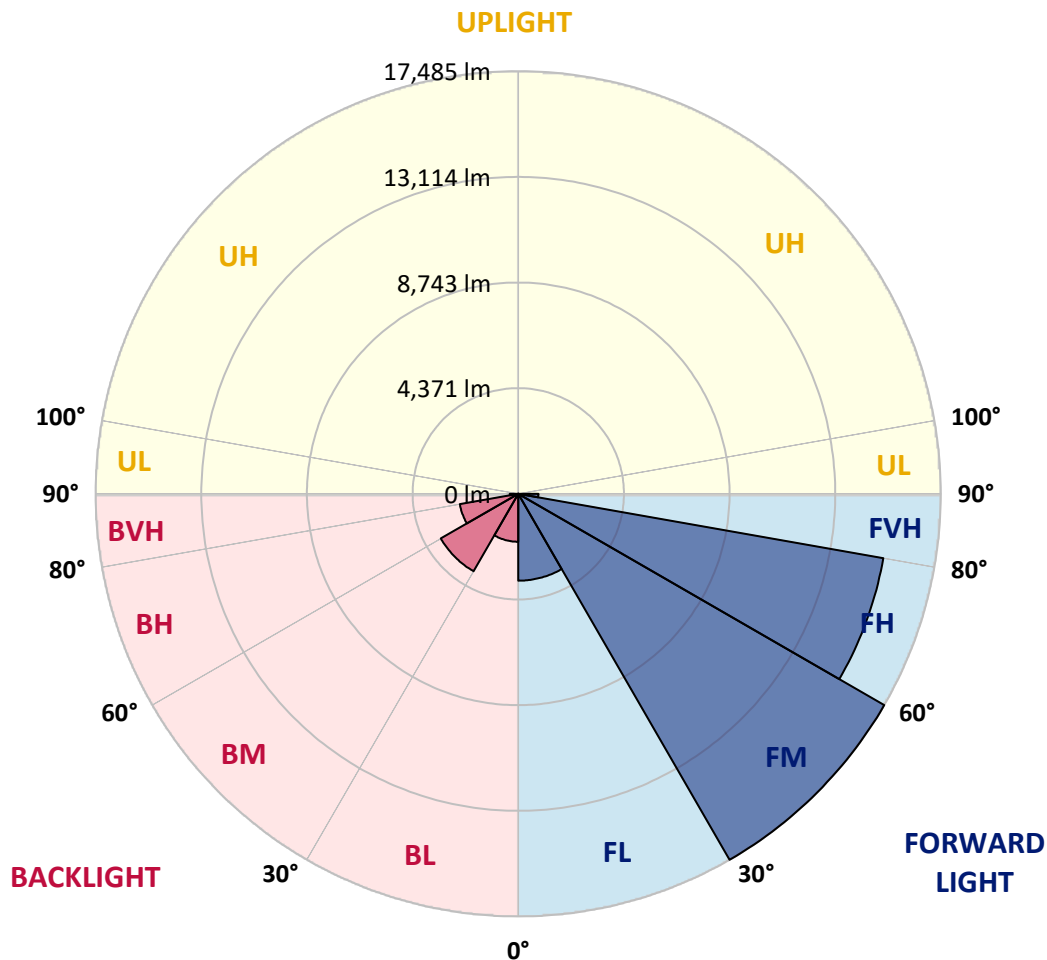


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3595.1	7.9			
FM (30°-60°)	17485.2	38.2			
FH (60°-80°)	15337.7	33.5			G5
FVH (80°-90°)	833.2	1.8			G5
BL (0°-30°)	1983.3	4.3	B3/2500		
BM (30°-60°)	3698.3	8.1	B3/5000		
BH (60°-80°)	2454.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	348.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6
2.5°	6215.6	6206.2	6173.1	6173.1	6110.1	6056.5	5955.8	5888.0	5807.7	5779.4	5684.9
5°	6817.2	6820.3	6779.3	6751.0	6658.1	6544.7	6373.1	6217.1	6061.3	5998.2	5804.6
7.5°	7322.6	7316.4	7305.3	7281.7	7195.1	7078.6	6847.1	6615.6	6385.7	6291.2	5957.3
10°	7647.1	7661.2	7670.6	7681.7	7645.5	7562.0	7343.1	7061.2	6760.4	6631.3	6140.0
12.5°	7810.8	7836.0	7880.1	7955.7	8015.5	8006.1	7847.1	7547.9	7190.3	7028.2	6368.3
15°	7906.9	7940.0	8009.3	8144.7	8313.1	8409.3	8366.7	8095.9	7697.5	7497.5	6647.1
17.5°	7966.7	7993.5	8100.6	8281.6	8532.0	8787.2	8899.0	8672.2	8270.7	8042.3	6966.8
20°	8007.7	8028.2	8162.0	8374.6	8699.0	9105.3	9417.1	9360.4	8902.1	8606.1	7300.6
22.5°	8099.0	8116.3	8243.9	8458.1	8817.1	9341.5	9916.3	10001.3	9568.3	9232.8	7658.1
25°	8354.1	8354.1	8461.2	8610.9	8947.8	9546.2	10338.3	10714.7	10248.6	9858.0	7988.8
27.5°	8840.8	8836.0	8875.4	8927.3	9182.5	9754.0	10714.7	11344.6	10954.1	10527.3	8310.1
30°	9417.1	9448.6	9453.3	9428.1	9547.8	10014.0	11062.7	12009.1	11664.3	11204.5	8639.2
32.5°	10158.8	10179.3	10155.6	10072.2	10054.8	10382.4	11404.5	12705.2	12432.7	11911.5	8940.0
35°	11100.5	11061.1	10987.1	10817.0	10654.9	10875.4	11795.0	13401.2	13295.7	12766.6	9354.1
37.5°	12109.9	12111.5	12020.1	11634.4	11410.7	11505.3	12333.5	14190.2	14339.8	13783.9	9884.7
40°	12919.4	12961.8	13018.6	12511.5	12221.7	12352.4	13018.6	15105.1	15574.5	14990.2	10576.1
42.5°	13484.7	13533.5	13694.1	13376.0	13075.3	13317.8	13824.8	16081.5	16960.2	16382.3	11385.6
45°	14083.1	14109.9	14223.2	14086.3	13894.1	14440.6	14733.4	17092.5	18426.3	17865.7	12291.0
47.5°	14713.0	14741.4	14857.9	14766.5	14665.8	15489.4	15681.5	18045.2	19831.0	19495.6	13258.0
50°	15491.0	15509.8	15620.1	15454.7	15486.2	16279.9	16528.7	18919.2	21303.4	20960.1	14228.0
52.5°	16552.3	16557.0	16709.8	16560.2	16412.2	16859.4	17257.9	19742.8	22457.7	22295.5	15198.0
55°	17383.8	17434.2	17935.0	17903.5	17818.5	17385.4	17867.3	20527.0	23487.6	23564.8	16227.9
57.5°	16853.1	17049.9	18064.1	18779.1	19475.1	18694.0	18690.9	21410.5	24445.0	24810.4	17360.2
60°	14760.3	15028.0	16522.4	18108.2	20286.1	20971.1	20401.1	22489.2	25412.0	26045.0	18779.1
62.5°	10541.5	10982.4	13007.6	15539.8	19174.3	22479.7	23881.2	24201.0	26726.8	27474.9	20623.1
65°	5329.0	5662.9	7360.4	10410.8	15319.3	21494.0	27663.9	27948.9	29011.8	29676.4	23462.4
67.5°	3237.7	3363.7	4192.1	5790.4	9391.9	16742.9	28898.5	34196.0	33433.8	33786.6	27511.1
70°	2385.8	2478.7	2995.2	3845.6	5401.5	9824.9	25109.6	38654.1	38153.4	38114.0	30503.2
72°	1858.3	1926.0	2382.6	3107.0	3949.5	5894.4	18199.6	37008.5	39504.5	39306.1	30229.2
72.5°	1762.1	1822.0	2237.8	2924.3	3732.2	5343.2	16363.4	35898.3	39406.9	39317.1	29874.8
75°	1387.4	1429.9	1656.7	2261.3	2921.1	3031.4	8966.7	27819.7	34958.2	36411.7	26870.2
77.5°	1148.0	1154.3	1274.0	1645.7	2277.1	2143.2	4404.6	19301.9	25032.5	26630.8	19034.1
80°	935.4	943.3	1000.0	1154.3	1722.8	1585.8	2091.3	11098.9	14015.4	14032.7	9051.8
82.5°	744.9	746.4	809.4	844.1	1237.7	1133.8	1198.4	5210.9	6124.3	5891.2	3253.4
85°	524.4	513.4	790.5	692.9	809.4	727.5	661.4	2062.9	2532.2	2422.0	1018.8
87.5°	174.8	181.1	351.2	448.8	472.4	412.6	294.5	790.5	955.9	948.0	322.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6	5626.6
2.5°	5655.0	5604.6	5530.6	5448.7	5384.2	5318.0	5269.1	5244.0	5215.6	5192.0	5220.3
5°	5714.9	5620.3	5462.9	5308.5	5195.1	5094.4	5021.9	4984.2	4949.5	4925.8	4929.0
7.5°	5812.5	5659.7	5395.2	5169.9	5012.5	4903.9	4829.8	4804.6	4782.6	4776.2	4784.1
10°	5916.4	5691.2	5305.3	5006.1	4826.6	4736.9	4703.8	4721.2	4736.9	4751.1	4766.8
12.5°	6034.5	5719.5	5174.7	4814.1	4661.3	4626.6	4659.7	4735.3	4790.4	4823.5	4844.0
15°	6188.8	5744.8	5023.5	4622.0	4519.6	4558.9	4670.8	4801.5	4897.5	4958.9	4968.4
17.5°	6330.5	5743.2	4829.8	4428.2	4404.6	4519.6	4688.1	4872.3	5001.5	5088.0	5105.3
20°	6477.0	5700.6	4604.6	4239.3	4288.1	4477.0	4695.9	4918.0	5073.9	5174.7	5198.3
22.5°	6614.0	5626.6	4357.4	4067.6	4190.5	4420.4	4666.0	4891.2	5047.1	5129.0	5154.2
25°	6707.0	5497.5	4107.0	3922.7	4103.8	4351.1	4568.4	4749.5	4866.0	4906.9	4913.3
27.5°	6754.2	5329.0	3870.8	3796.7	4014.0	4237.7	4387.3	4477.0	4510.1	4507.0	4500.7
30°	6760.4	5106.9	3667.6	3694.4	3910.2	4070.8	4141.7	4124.3	4081.8	4009.4	4015.6
32.5°	6740.0	4856.5	3497.6	3596.8	3777.9	3867.6	3870.8	3787.3	3673.9	3559.0	3527.5
35°	6746.3	4610.9	3348.0	3486.5	3617.2	3656.6	3620.4	3497.6	3343.2	3195.2	3163.7
37.5°	6815.6	4396.7	3218.8	3359.0	3439.3	3448.8	3396.8	3267.6	3154.2	3009.4	2996.8
40°	6980.9	4243.9	3096.0	3215.7	3261.3	3266.1	3192.0	3100.7	3110.2	3033.0	3031.4
42.5°	7278.6	4177.8	2987.3	3066.1	3094.4	3103.8	3047.2	2988.9	3070.8	3020.4	3003.0
45°	7662.8	4193.6	2896.0	2919.7	2971.5	3015.7	2981.0	2910.2	2941.6	2722.7	2650.3
47.5°	8106.9	4294.3	2823.5	2793.6	2883.4	2966.9	2913.3	2806.2	2694.4	2477.1	2436.2
50°	8626.6	4450.3	2757.4	2669.3	2787.4	2900.7	2847.2	2694.4	2525.9	2420.4	2406.3
52.5°	9168.3	4640.8	2691.2	2532.2	2666.1	2850.3	2823.5	2669.3	2461.3	2357.5	2338.6
55°	9782.5	4833.0	2607.8	2373.2	2535.4	2826.7	2812.5	2577.9	2412.5	2354.3	2340.1
57.5°	10546.2	5051.9	2497.6	2207.9	2412.5	2741.6	2697.6	2522.8	2362.1	2318.1	2313.3
60°	11541.4	5374.7	2338.6	2031.4	2262.9	2610.9	2601.5	2442.4	2281.8	2250.3	2244.0
62.5°	13034.3	5908.5	2119.6	1855.1	2096.0	2389.0	2475.5	2333.8	2196.8	2195.2	2198.4
65°	15349.2	6711.6	1881.8	1700.7	1927.5	2201.5	2329.1	2222.0	2110.1	2141.7	2146.4
67.5°	18032.6	7377.8	1648.7	1549.5	1755.9	2023.6	2196.8	2110.1	1995.2	2077.1	2078.7
70°	18925.5	6782.5	1444.1	1399.9	1577.9	1851.9	2053.5	1987.4	1870.8	1952.7	1944.8
72°	17612.1	5475.5	1311.8	1286.6	1444.1	1710.2	1926.0	1872.4	1757.5	1812.5	1792.1
72.5°	17198.0	5220.3	1278.7	1258.2	1407.8	1674.0	1892.9	1844.1	1729.0	1776.4	1757.5
75°	15341.4	4533.7	1099.2	1103.9	1228.3	1497.6	1707.1	1691.3	1573.2	1577.9	1571.6
77.5°	11127.2	3324.3	926.0	957.4	1045.7	1316.5	1519.6	1510.2	1381.1	1357.5	1352.7
80°	5163.7	1696.0	754.3	768.5	859.8	1100.7	1296.1	1283.4	1179.5	1149.6	1132.3
82.5°	1768.4	806.3	566.9	576.3	666.1	886.6	1124.4	1116.6	1029.9	971.6	935.4
85°	631.5	401.6	396.8	387.4	475.6	697.6	979.5	937.0	809.4	689.7	686.6
87.5°	204.8	171.7	204.8	203.2	277.1	472.4	711.8	606.3	587.3	488.1	478.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)