

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: P383567

Luminaire Tested: **GLEON-SA8C-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383567
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-SA8C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 51819.2 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

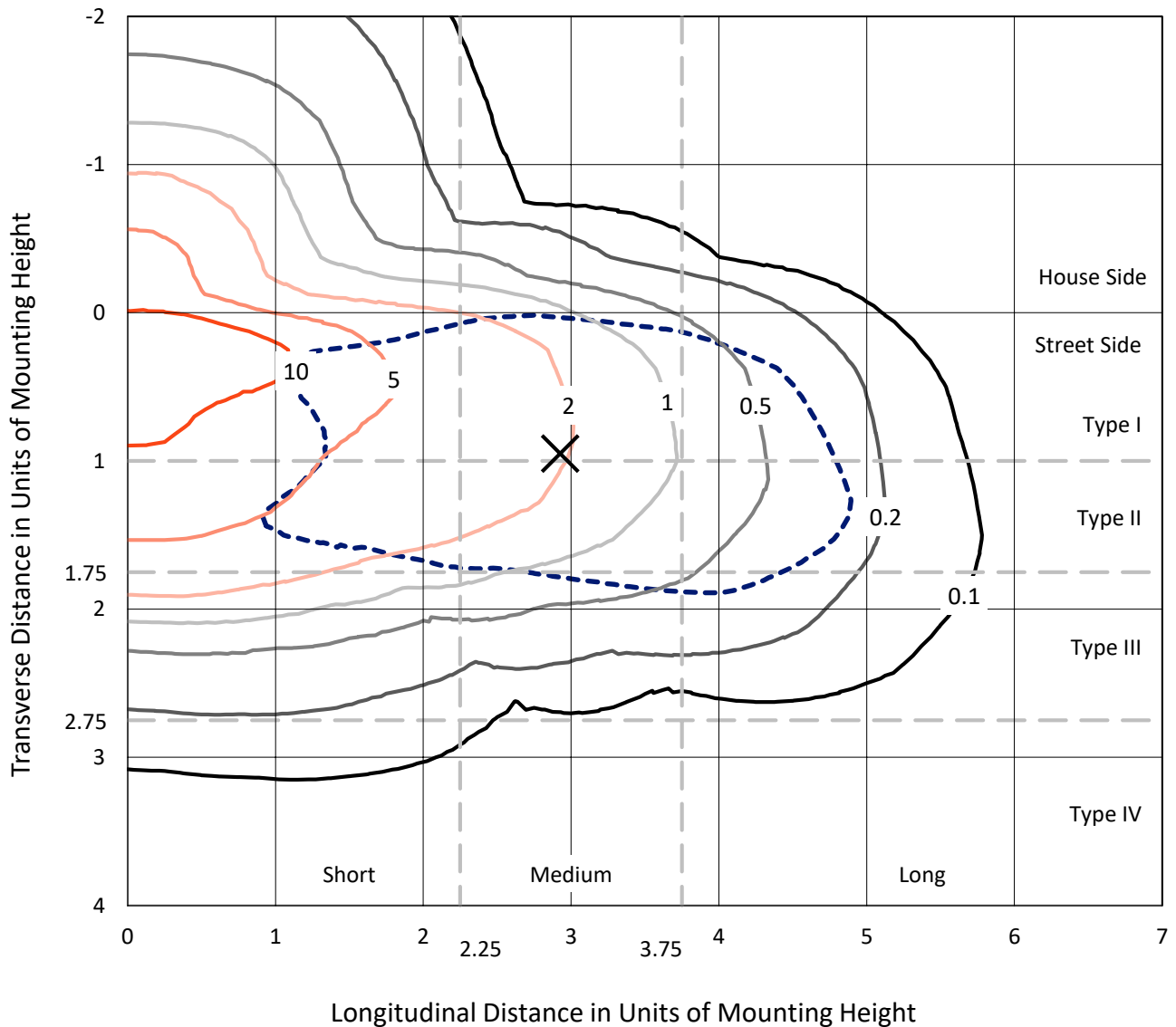
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

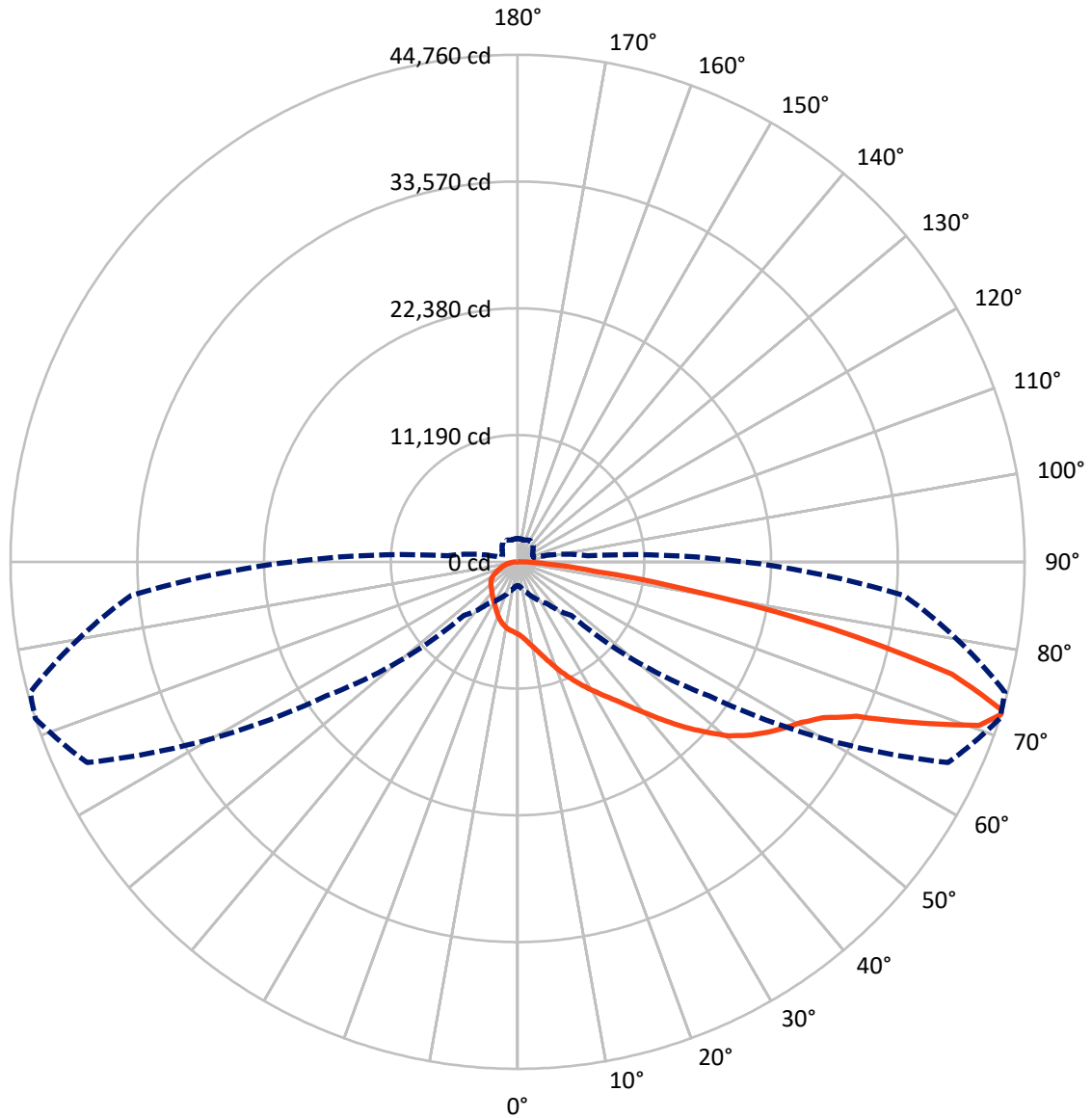
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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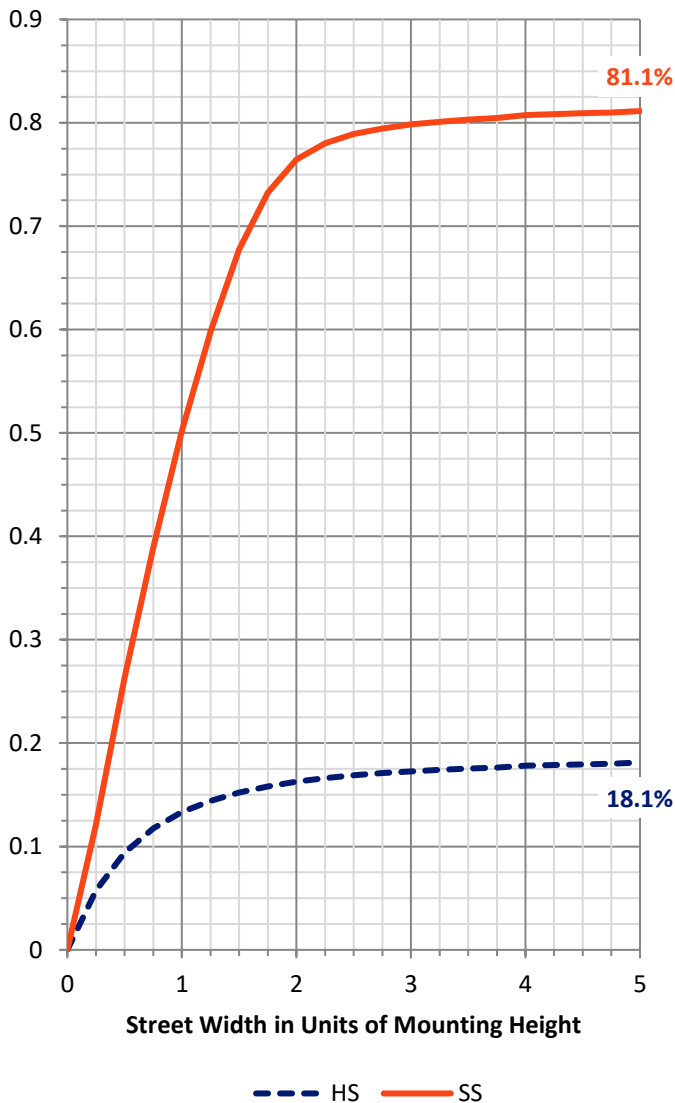
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9612.8	0.0	9612.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42206.4	0.0	42206.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	51819.2	0.0	51819.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.8	1.2
10°-20°	2064.3	4.0
20°-30°	3617.3	7.0
30°-40°	5363.4	10.4
40°-50°	7844.3	15.1
50°-60°	10793.7	20.8
60°-70°	12016.6	23.2
70°-80°	8142.5	15.7
80°-90°	1338.3	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°	51819.2	100.0
0°-180°	51819.2	100.0

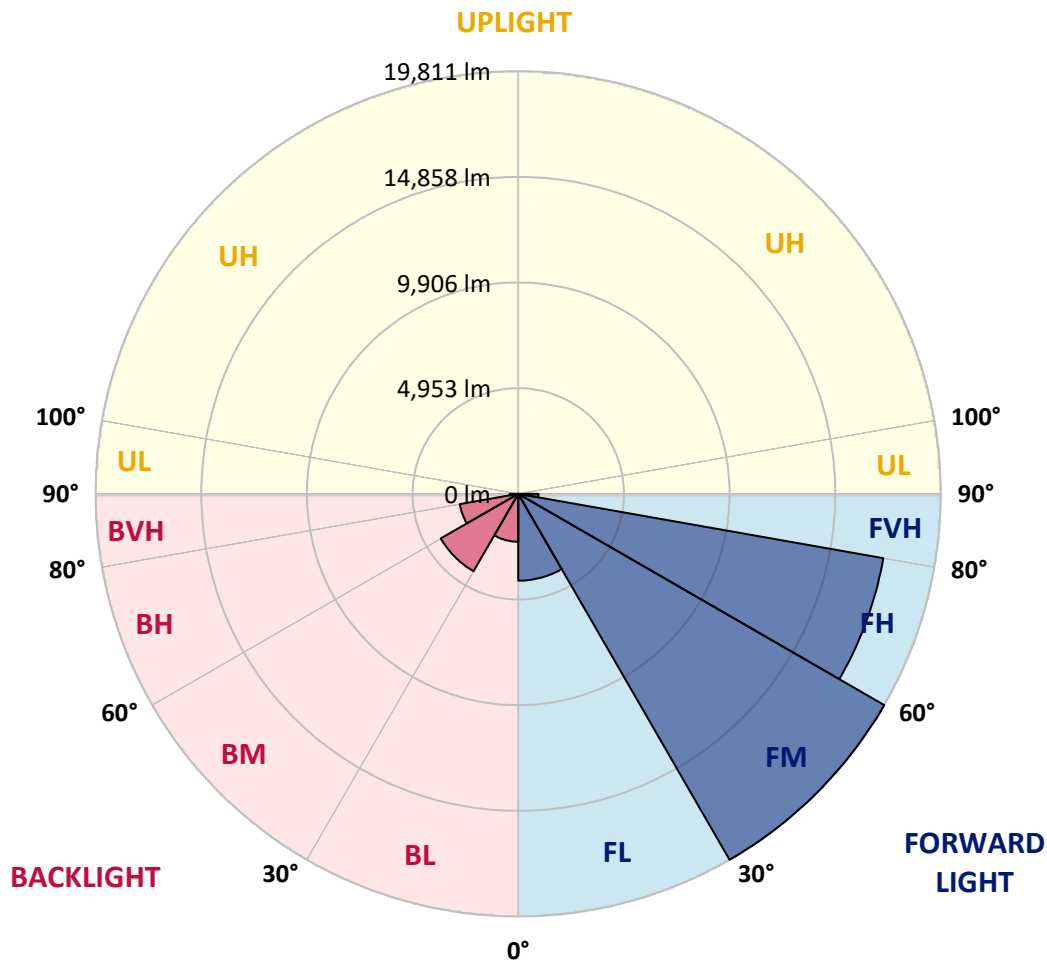


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4073.3	7.9			
FM (30°-60°)	19811.1	38.2			
FH (60°-80°)	17378.0	33.5			G5
FVH (80°-90°)	944.0	1.8			G5
BL (0°-30°)	2247.1	4.3	B3/2500		
BM (30°-60°)	4190.3	8.1	B3/5000		
BH (60°-80°)	2781.1	5.4	B4/5000		G4/5000
BVH (80°-90°)	394.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1
2.5°	7042.4	7031.7	6994.2	6994.2	6922.9	6862.2	6748.0	6671.3	6580.3	6548.2	6441.1
5°	7724.0	7727.6	7681.2	7649.0	7543.8	7415.3	7220.9	7044.2	6867.6	6796.2	6576.7
7.5°	8296.7	8289.7	8277.1	8250.3	8152.3	8020.2	7757.9	7495.6	7235.1	7128.1	6749.8
10°	8664.3	8680.3	8691.1	8703.5	8662.6	8567.9	8319.9	8000.6	7659.7	7513.5	6956.8
12.5°	8849.9	8878.4	8928.3	9014.0	9081.8	9071.1	8890.9	8551.9	8146.8	7963.1	7215.5
15°	8958.7	8996.1	9074.7	9228.1	9419.1	9527.9	9479.7	9172.9	8721.4	8494.8	7531.3
17.5°	9026.5	9056.9	9178.2	9383.4	9667.0	9956.1	10082.8	9825.9	9370.9	9112.1	7893.5
20°	9072.9	9096.1	9247.8	9488.7	9856.1	10316.5	10669.8	10605.6	10086.3	9750.9	8271.8
22.5°	9176.4	9196.1	9340.5	9583.2	9990.0	10584.2	11235.4	11331.7	10841.1	10461.0	8676.8
25°	9465.5	9465.5	9586.7	9756.3	10138.1	10816.1	11713.6	12140.0	11611.8	11169.3	9051.5
27.5°	10016.7	10011.4	10056.1	10114.9	10403.9	11051.6	12140.0	12853.7	12411.2	11927.7	9415.4
30°	10669.8	10705.4	10710.8	10682.2	10817.9	11346.1	12534.3	13606.7	13216.0	12694.9	9788.4
32.5°	11510.2	11533.4	11506.6	11412.0	11392.5	11763.6	12921.5	14395.3	14086.6	13496.1	10129.2
35°	12577.2	12532.6	12448.6	12256.0	12072.2	12322.0	13364.0	15183.9	15064.4	14464.9	10598.4
37.5°	13720.9	13722.6	13619.1	13182.1	12928.7	13035.7	13974.2	16077.9	16247.3	15617.5	11199.7
40°	14638.0	14686.1	14750.4	14175.8	13847.5	13995.7	14750.4	17114.5	17646.2	16984.3	11983.0
42.5°	15278.5	15333.8	15515.8	15155.3	14814.6	15089.4	15663.9	18220.7	19216.3	18561.6	12900.1
45°	15956.5	15986.8	16115.3	15960.1	15742.4	16361.5	16693.4	19366.2	20877.5	20242.2	13926.1
47.5°	16670.2	16702.4	16834.4	16730.9	16616.7	17549.9	17767.5	20445.7	22469.0	22088.9	15021.6
50°	17551.7	17573.1	17697.9	17510.6	17546.3	18445.6	18727.5	21435.9	24137.3	23748.3	16120.7
52.5°	18754.2	18759.6	18932.7	18763.1	18595.5	19102.1	19553.6	22369.1	25445.1	25261.3	17219.8
55°	19696.3	19753.4	20320.8	20285.1	20188.8	19698.0	20244.0	23257.7	26612.1	26699.5	18386.7
57.5°	19095.0	19318.1	20467.1	21277.1	22065.8	21180.8	21177.2	24258.6	27696.9	28110.8	19669.5
60°	16723.7	17027.1	18720.3	20517.1	22984.6	23760.8	23115.0	25480.8	28792.4	29509.7	21277.1
62.5°	11943.7	12443.3	14737.9	17606.9	21725.0	25470.1	27058.1	27420.3	30282.2	31129.7	23366.5
65°	6037.9	6416.1	8339.6	11795.6	17357.2	24353.2	31343.9	31666.8	32871.1	33624.1	26583.5
67.5°	3668.4	3811.1	4749.7	6560.7	10641.3	18970.1	32742.7	38744.9	37881.4	38281.0	31170.8
70°	2703.2	2808.4	3393.6	4357.1	6120.0	11131.9	28449.8	43796.2	43228.7	43184.1	34560.9
72°	2105.4	2182.2	2699.5	3520.3	4474.9	6678.5	20620.6	41931.6	44759.7	44534.8	34250.4
72.5°	1996.6	2064.4	2535.4	3313.3	4228.7	6053.9	18540.1	40673.7	44649.0	44547.3	33848.9
75°	1571.9	1620.1	1877.1	2562.2	3309.8	3434.7	10159.5	31520.5	39608.5	41255.4	30444.6
77.5°	1300.7	1307.9	1443.4	1864.5	2580.0	2428.4	4990.6	21869.5	28362.4	30173.4	21566.2
80°	1059.8	1068.8	1133.0	1307.9	1952.0	1796.8	2369.5	12575.3	15879.8	15899.5	10255.9
82.5°	844.0	845.8	917.1	956.3	1402.4	1284.7	1357.8	5904.1	6938.9	6674.9	3686.2
85°	594.1	581.7	895.7	785.1	917.1	824.3	749.4	2337.3	2869.1	2744.2	1154.4
87.5°	198.0	205.2	397.9	508.5	535.3	467.5	333.7	895.7	1083.0	1074.1	365.7
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°	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1	6375.1
2.5°	6407.2	6350.2	6266.2	6173.5	6100.3	6025.4	5970.1	5941.5	5909.5	5882.6	5914.8
5°	6475.0	6368.0	6189.6	6014.7	5886.3	5772.1	5690.0	5647.1	5607.9	5581.1	5584.7
7.5°	6585.7	6412.6	6112.8	5857.7	5679.3	5556.1	5472.3	5443.8	5418.7	5411.6	5420.6
10°	6703.4	6448.3	6011.1	5672.1	5468.7	5367.0	5329.6	5349.1	5367.0	5383.0	5400.9
12.5°	6837.2	6480.4	5863.1	5454.4	5281.4	5242.1	5279.5	5365.2	5427.7	5465.1	5488.3
15°	7012.1	6508.9	5691.8	5236.8	5120.8	5165.4	5292.1	5440.1	5549.0	5618.6	5629.3
17.5°	7172.6	6507.1	5472.3	5017.3	4990.6	5120.8	5311.7	5520.4	5666.8	5764.9	5784.5
20°	7338.6	6459.0	5217.1	4803.2	4858.5	5072.6	5320.6	5572.2	5748.9	5863.1	5889.8
22.5°	7493.8	6375.1	4937.0	4608.7	4747.9	5008.4	5286.7	5541.9	5718.5	5811.3	5839.9
25°	7599.1	6228.8	4653.4	4444.6	4649.7	4929.8	5176.1	5381.3	5513.4	5559.8	5566.8
27.5°	7652.7	6037.9	4385.6	4301.8	4548.0	4801.4	4970.9	5072.6	5110.1	5106.6	5099.4
30°	7659.7	5786.3	4155.5	4185.8	4430.3	4612.3	4692.6	4672.9	4624.8	4542.7	4549.9
32.5°	7636.5	5502.7	3962.8	4075.2	4280.4	4382.1	4385.6	4291.1	4162.6	4032.4	3996.7
35°	7643.7	5224.3	3793.3	3950.3	4098.4	4143.1	4102.0	3962.8	3788.0	3620.3	3584.6
37.5°	7722.3	4981.6	3647.0	3805.8	3896.8	3907.5	3848.6	3702.3	3573.9	3409.7	3395.4
40°	7909.6	4808.6	3507.8	3643.5	3695.2	3700.6	3616.6	3513.1	3523.9	3436.5	3434.7
42.5°	8246.8	4733.6	3384.7	3473.9	3506.1	3516.8	3452.5	3386.5	3479.2	3422.2	3402.6
45°	8682.1	4751.5	3281.2	3308.0	3366.9	3416.8	3377.6	3297.3	3333.0	3085.0	3002.8
47.5°	9185.3	4865.7	3199.1	3165.2	3266.9	3361.5	3300.8	3179.6	3052.9	2806.7	2760.3
50°	9774.1	5042.3	3124.2	3024.3	3158.1	3286.6	3225.9	3052.9	2861.9	2742.4	2726.4
52.5°	10387.9	5258.2	3049.2	2869.1	3020.7	3229.5	3199.1	3024.3	2788.8	2671.0	2649.6
55°	11083.7	5475.8	2954.7	2688.8	2872.6	3202.8	3186.6	2920.8	2733.4	2667.5	2651.4
57.5°	11949.1	5723.9	2829.9	2501.5	2733.4	3106.3	3056.4	2858.4	2676.3	2626.4	2621.1
60°	13076.8	6089.6	2649.6	2301.7	2564.0	2958.3	2947.6	2767.3	2585.4	2549.6	2542.6
62.5°	14768.2	6694.5	2401.6	2101.9	2374.8	2706.7	2804.8	2644.3	2489.0	2487.2	2490.8
65°	17391.1	7604.5	2132.2	1927.0	2183.9	2494.4	2638.9	2517.6	2390.9	2426.6	2431.9
67.5°	20431.4	8359.1	1868.1	1755.7	1989.4	2292.7	2489.0	2390.9	2260.7	2353.5	2355.2
70°	21443.1	7684.7	1636.2	1586.2	1787.8	2098.3	2326.6	2251.7	2119.6	2212.4	2203.6
72°	19955.1	6203.8	1486.3	1457.7	1636.2	1937.7	2182.2	2121.5	1991.2	2053.7	2030.5
72.5°	19485.7	5914.8	1448.8	1425.6	1595.1	1896.6	2144.7	2089.4	1959.1	2012.6	1991.2
75°	17382.1	5136.8	1245.4	1250.8	1391.7	1696.8	1934.1	1916.3	1782.4	1787.8	1780.7
77.5°	12607.5	3766.5	1049.1	1084.8	1184.7	1491.6	1721.8	1711.1	1564.8	1538.0	1532.7
80°	5850.6	1921.6	854.7	870.7	974.2	1247.2	1468.4	1454.1	1336.4	1302.5	1282.8
82.5°	2003.7	913.6	642.3	653.0	754.7	1004.5	1274.0	1265.0	1166.9	1100.9	1059.8
85°	715.5	455.0	449.7	438.9	538.8	790.4	1109.8	1061.6	917.1	781.5	777.9
87.5°	232.0	194.5	232.0	230.2	314.0	535.3	806.4	686.9	665.5	553.2	542.4
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)