

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: P383155

Luminaire Tested: **GLEON-SA4D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29332.6 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

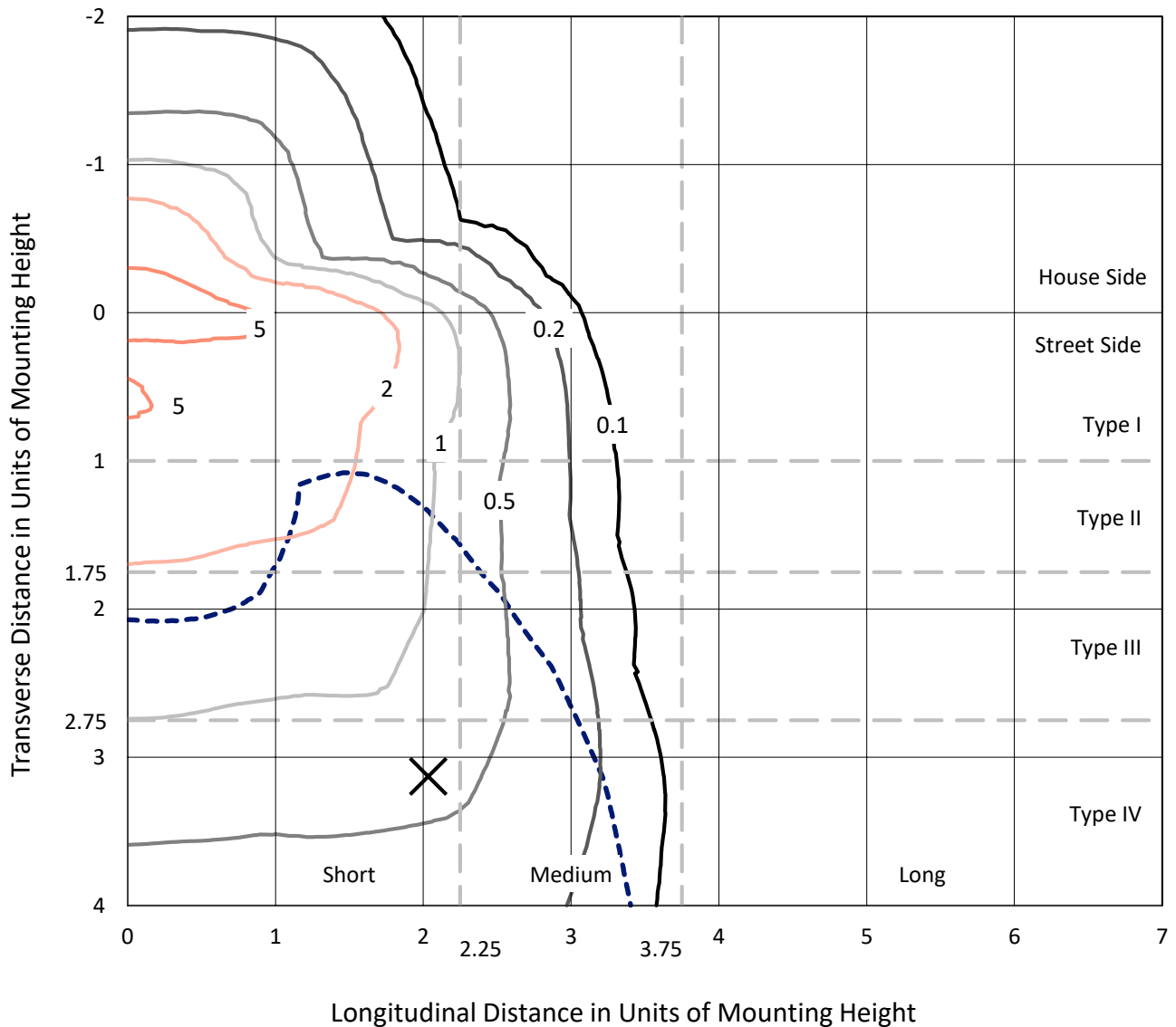
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

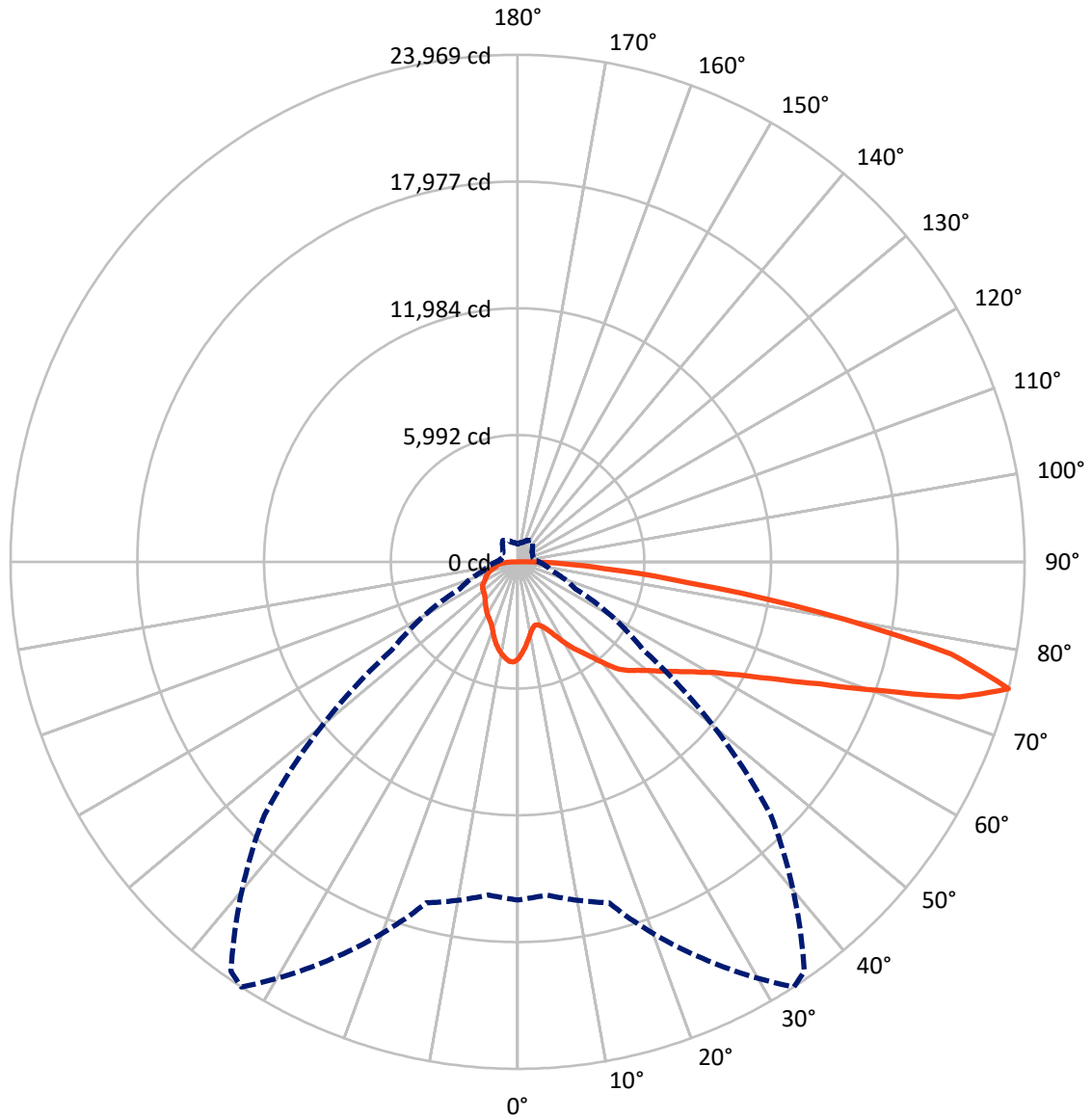
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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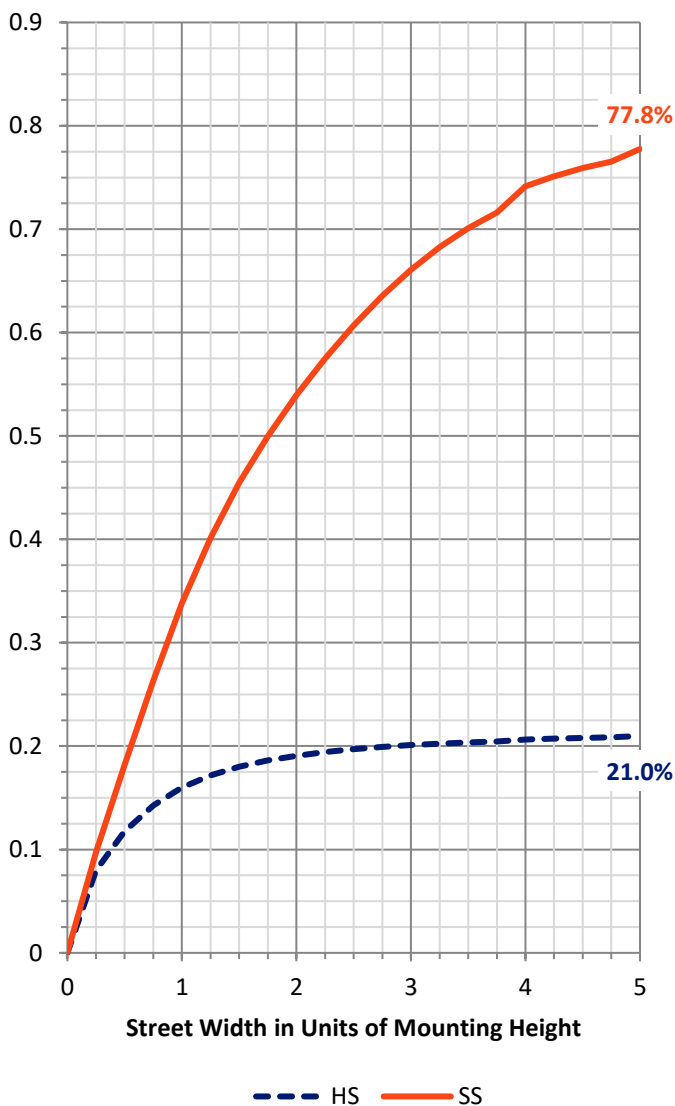
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6298.5	0.0	6298.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	23034.1	0.0	23034.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	29332.6	0.0	29332.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.6	1.4
10°-20°	1123.0	3.8
20°-30°	1834.1	6.3
30°-40°	2731.4	9.3
40°-50°	3917.5	13.4
50°-60°	5378.1	18.3
60°-70°	6733.2	23.0
70°-80°	6091.2	20.8
80°-90°	1109.5	3.8
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°	29332.6	100.0
0°-180°	29332.6	100.0

Coefficient of Utilization

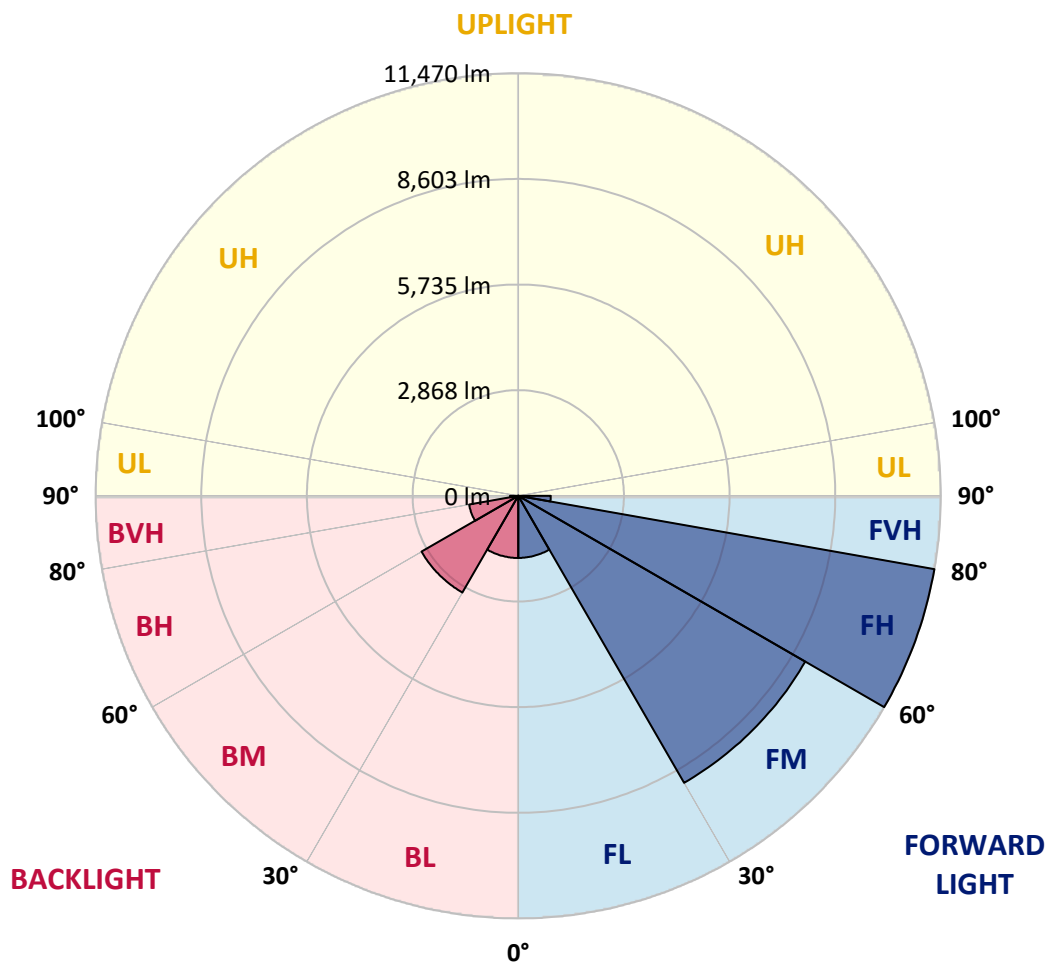


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.7	5.7			
FM (30°-60°)	8995.7	30.7			
FH (60°-80°)	11470.1	39.1			G4/12000
FVH (80°-90°)	883.7	3.0			G5
BL (0°-30°)	1687.0	5.8	B3/2500		
BM (30°-60°)	3031.3	10.3	B3/5000		
BH (60°-80°)	1354.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	225.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9
2.5°	4257.5	4241.3	4271.8	4275.8	4302.2	4312.3	4348.7	4405.5	4452.1	4505.8	4554.4
5°	3871.5	3860.4	3902.9	3933.4	3991.1	4015.4	4101.5	4222.1	4329.6	4451.1	4561.5
7.5°	3504.8	3498.7	3546.3	3615.1	3682.0	3715.5	3864.4	4039.7	4219.1	4415.6	4584.9
10°	3195.7	3193.7	3239.3	3307.2	3405.5	3442.9	3635.5	3866.5	4117.7	4388.2	4624.4
12.5°	3022.4	3029.6	3050.8	3107.5	3198.7	3236.2	3450.0	3721.5	4032.7	4379.2	4682.1
15°	3065.0	3076.2	3039.6	3037.7	3102.5	3131.9	3332.5	3618.2	3971.8	4394.4	4766.2
17.5°	3246.4	3248.4	3152.2	3091.3	3130.8	3146.0	3296.0	3559.4	3936.3	4428.8	4871.6
20°	3501.7	3496.7	3326.5	3225.1	3246.4	3250.4	3347.7	3560.5	3933.4	4488.6	5008.4
22.5°	3840.1	3802.7	3573.6	3435.8	3430.8	3424.7	3480.4	3635.5	3977.9	4585.8	5171.5
25°	4281.9	4246.5	3931.3	3742.9	3702.3	3687.2	3695.3	3795.5	4066.1	4690.2	5353.9
27.5°	4773.3	4711.5	4407.5	4141.0	4057.0	4035.7	3987.0	4021.5	4162.3	4790.5	5570.7
30°	5184.7	5151.3	4885.8	4569.6	4470.3	4439.9	4312.3	4274.8	4301.1	4927.3	5844.3
32.5°	5414.7	5392.4	5231.3	4976.0	4883.7	4841.2	4660.8	4585.8	4524.1	5143.2	6215.1
35°	5693.3	5679.1	5581.8	5396.5	5259.6	5215.1	5075.3	4997.2	4838.2	5440.1	6694.4
37.5°	6048.0	6032.7	6034.8	5884.8	5721.7	5680.1	5588.0	5505.9	5245.5	5830.1	7215.2
40°	6449.2	6419.8	6408.7	6401.6	6298.2	6274.9	6226.3	6114.8	5756.1	6296.1	7728.9
42.5°	7053.0	6948.7	6725.8	6809.9	6912.3	6900.1	6939.6	6779.5	6323.5	6847.3	8230.4
45°	7635.7	7464.4	7079.4	7097.6	7321.6	7389.4	7685.4	7571.8	6938.5	7451.3	8749.2
47.5°	7901.1	7771.4	7444.2	7445.2	7667.1	7808.0	8456.4	8375.4	7585.0	8137.3	9382.5
50°	8198.0	8068.3	7774.5	7884.9	8078.5	8228.4	9201.1	9159.5	8200.0	8888.0	10141.4
52.5°	8522.3	8302.3	8115.9	8313.5	8585.0	8759.3	9946.9	9833.3	8764.4	9643.8	11013.8
55°	8526.3	8466.6	8608.3	8753.3	9159.5	9373.3	10728.1	10428.1	9224.4	10386.6	11724.0
57.5°	9011.6	8914.4	9215.2	9282.1	9813.1	10054.2	11505.2	10945.9	9692.5	10956.0	12107.0
60°	9654.0	9570.9	9817.1	9993.5	10621.6	10943.8	12335.0	11477.8	10060.3	11385.7	12088.8
62.5°	10763.5	10669.3	10666.2	10913.5	11759.5	12134.4	13266.2	11999.6	10206.2	11470.7	11573.1
65°	12387.7	12237.7	11955.0	12072.6	13331.0	13704.9	14306.7	12377.6	10013.7	11014.8	10244.7
67.5°	13968.4	13963.2	13615.7	13856.9	15406.1	15706.0	15492.2	12415.0	9412.8	9427.1	7888.0
70°	15543.9	15564.1	15505.4	16344.4	18209.7	18521.8	16754.7	11911.5	8062.3	6807.8	4725.6
72.5°	16792.2	16787.1	17083.0	19246.2	21848.1	21778.3	17818.5	10385.5	5788.5	3675.0	2258.4
75°	15983.6	15807.3	16688.9	20683.0	23968.9	23627.4	16913.7	7244.6	3004.2	1672.9	1215.9
77.5°	10425.0	10592.3	11886.2	17086.0	20965.7	20550.2	12409.0	3380.1	1415.5	1097.4	881.5
80°	3775.3	3951.6	5565.6	9678.3	14444.6	14376.7	6110.8	1389.1	957.5	828.8	642.4
82.5°	1298.9	1363.8	2195.7	4298.1	8155.4	8459.4	2299.0	789.3	696.1	587.7	439.8
85°	509.6	583.6	1004.1	2068.0	4113.7	4144.1	931.2	472.2	484.3	385.0	241.2
87.5°	193.5	235.0	480.3	960.5	1878.6	1725.5	333.3	225.0	275.6	229.0	114.5
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°	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9
2.5°	4592.0	4613.2	4657.8	4688.2	4720.6	4729.7	4733.8	4741.9	4750.0	4747.0	4748.0
5°	4620.3	4661.8	4733.8	4764.2	4778.4	4762.2	4730.8	4705.4	4687.2	4677.0	4674.0
7.5°	4667.0	4725.6	4802.7	4797.7	4765.2	4693.2	4612.2	4551.4	4500.8	4482.5	4472.4
10°	4728.7	4797.7	4851.3	4793.6	4699.4	4574.7	4453.2	4358.9	4282.9	4253.5	4248.4
12.5°	4807.7	4877.7	4887.8	4765.2	4609.2	4438.9	4273.8	4149.1	4035.7	3999.2	3991.1
15°	4910.1	4976.0	4913.2	4715.6	4497.7	4268.7	4054.9	3885.8	3766.2	3721.5	3705.3
17.5°	5017.5	5080.3	4918.2	4633.5	4351.8	4067.0	3798.6	3625.3	3488.6	3436.9	3430.8
20°	5146.1	5174.6	4897.0	4516.0	4151.2	3805.7	3523.0	3359.8	3286.9	3250.4	3246.4
22.5°	5305.3	5274.9	4848.2	4356.8	3896.8	3503.7	3273.7	3197.7	3179.5	3171.4	3174.4
25°	5473.4	5380.2	4776.3	4149.1	3575.7	3201.8	3091.3	3112.7	3137.0	3133.9	3133.9
27.5°	5658.9	5487.7	4665.9	3873.6	3220.0	2954.6	2967.7	3045.8	3082.2	3081.2	3080.2
30°	5897.0	5609.2	4525.1	3542.2	2887.7	2780.3	2860.3	2955.6	3005.3	3003.2	3004.2
32.5°	6189.8	5743.0	4333.6	3172.4	2647.6	2651.7	2743.8	2838.1	2895.8	2890.8	2891.7
35°	6532.3	5892.9	4074.2	2807.7	2488.4	2549.3	2622.2	2688.1	2742.8	2735.7	2728.6
37.5°	6905.1	6039.9	3729.6	2481.4	2358.8	2454.1	2514.8	2526.0	2551.3	2533.1	2519.9
40°	7259.7	6152.3	3285.8	2213.9	2228.1	2372.9	2412.5	2367.9	2322.3	2316.2	2298.0
42.5°	7568.8	6189.8	2837.0	2000.1	2090.3	2287.9	2312.2	2218.9	2136.9	2098.4	2082.2
45°	7895.1	6203.0	2418.6	1820.8	1957.6	2211.9	2238.2	2113.6	1998.1	1915.0	1887.6
47.5°	8321.6	6298.2	2093.3	1688.1	1856.2	2161.2	2198.7	2029.5	1879.5	1761.0	1735.7
50°	8879.9	6486.6	1828.9	1586.7	1790.3	2127.7	2170.3	1947.4	1782.2	1639.4	1614.1
52.5°	9500.0	6659.9	1615.1	1504.6	1726.5	2069.0	2133.9	1888.6	1691.0	1526.9	1499.6
55°	9933.7	6527.2	1442.9	1419.5	1643.4	1984.9	2083.2	1839.0	1560.3	1417.5	1393.2
57.5°	10016.7	6073.3	1312.1	1331.4	1543.1	1879.5	2005.2	1728.6	1489.5	1369.8	1344.6
60°	9789.8	5441.0	1214.8	1250.3	1435.7	1746.8	1859.3	1650.5	1421.5	1319.3	1297.9
62.5°	9219.3	4793.6	1142.9	1177.4	1335.5	1612.0	1768.1	1568.4	1352.7	1261.5	1240.2
65°	8067.3	4024.6	1074.0	1112.5	1242.2	1495.5	1686.0	1492.5	1284.8	1214.8	1194.6
67.5°	6089.5	3014.3	1009.1	1043.6	1159.1	1394.2	1596.9	1417.5	1218.9	1174.3	1150.0
70°	3585.8	1887.6	935.2	971.7	1072.0	1288.8	1501.6	1335.5	1136.9	1116.6	1085.2
72.5°	1668.8	1135.8	851.2	886.6	962.6	1147.9	1379.0	1228.1	1039.6	995.0	952.4
75°	996.0	830.8	751.9	783.2	836.9	998.1	1225.0	1118.6	947.4	888.6	844.0
77.5°	744.7	635.3	642.4	675.8	719.4	873.4	1085.2	1032.4	876.4	830.8	800.5
80°	536.0	482.3	523.8	560.3	605.9	794.3	1039.6	954.5	792.4	731.5	703.1
82.5°	357.7	346.5	394.1	431.7	476.2	695.0	976.7	835.9	676.9	599.8	537.0
85°	197.6	208.8	265.5	281.7	320.2	489.3	800.5	671.7	509.6	410.3	392.1
87.5°	82.1	96.2	142.9	137.8	170.2	291.9	526.9	405.3	324.3	242.2	188.5
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)