

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: P383239

Luminaire Tested: **GLEON-SA5C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383239
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-SA5C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 33129.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

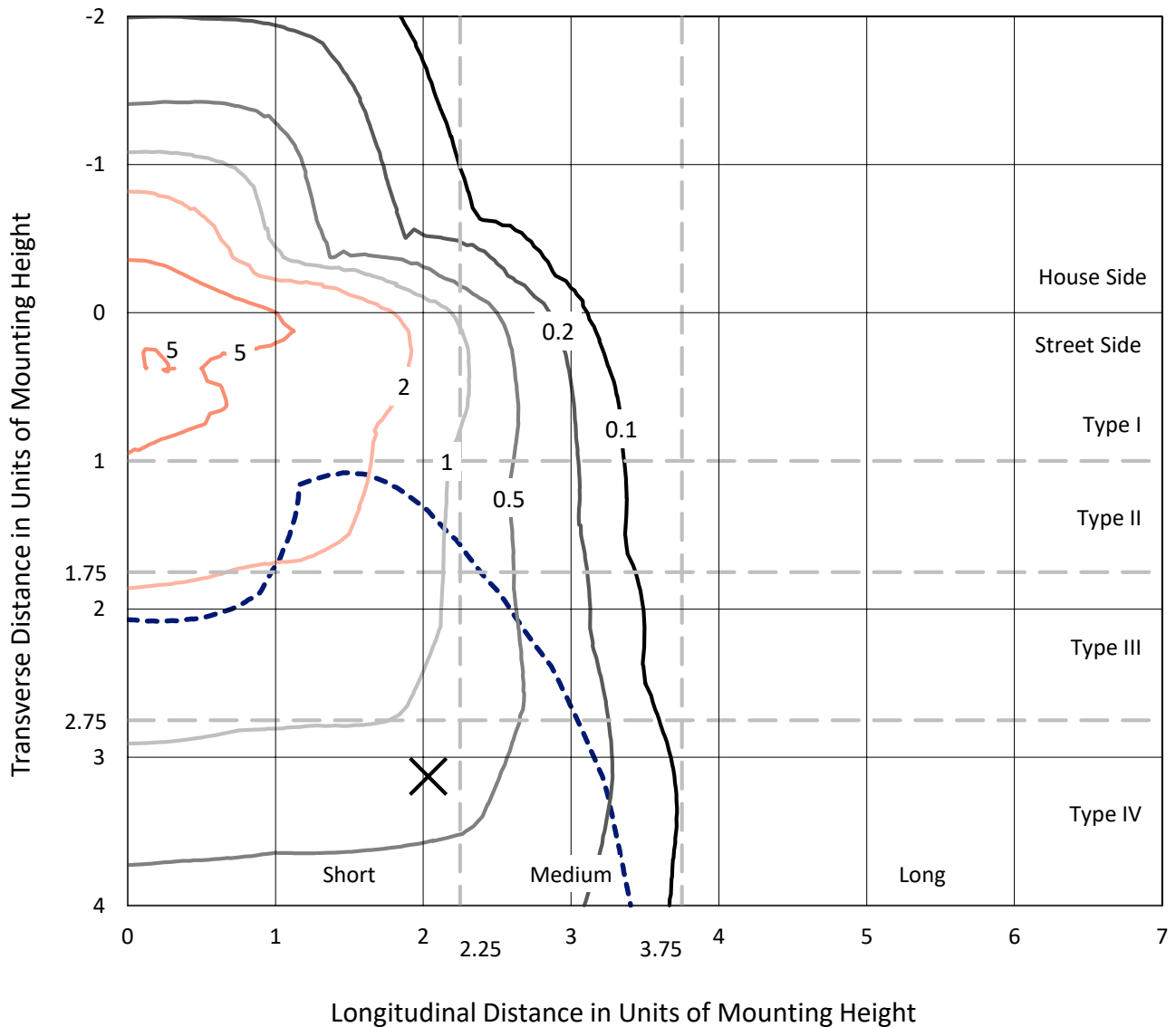
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

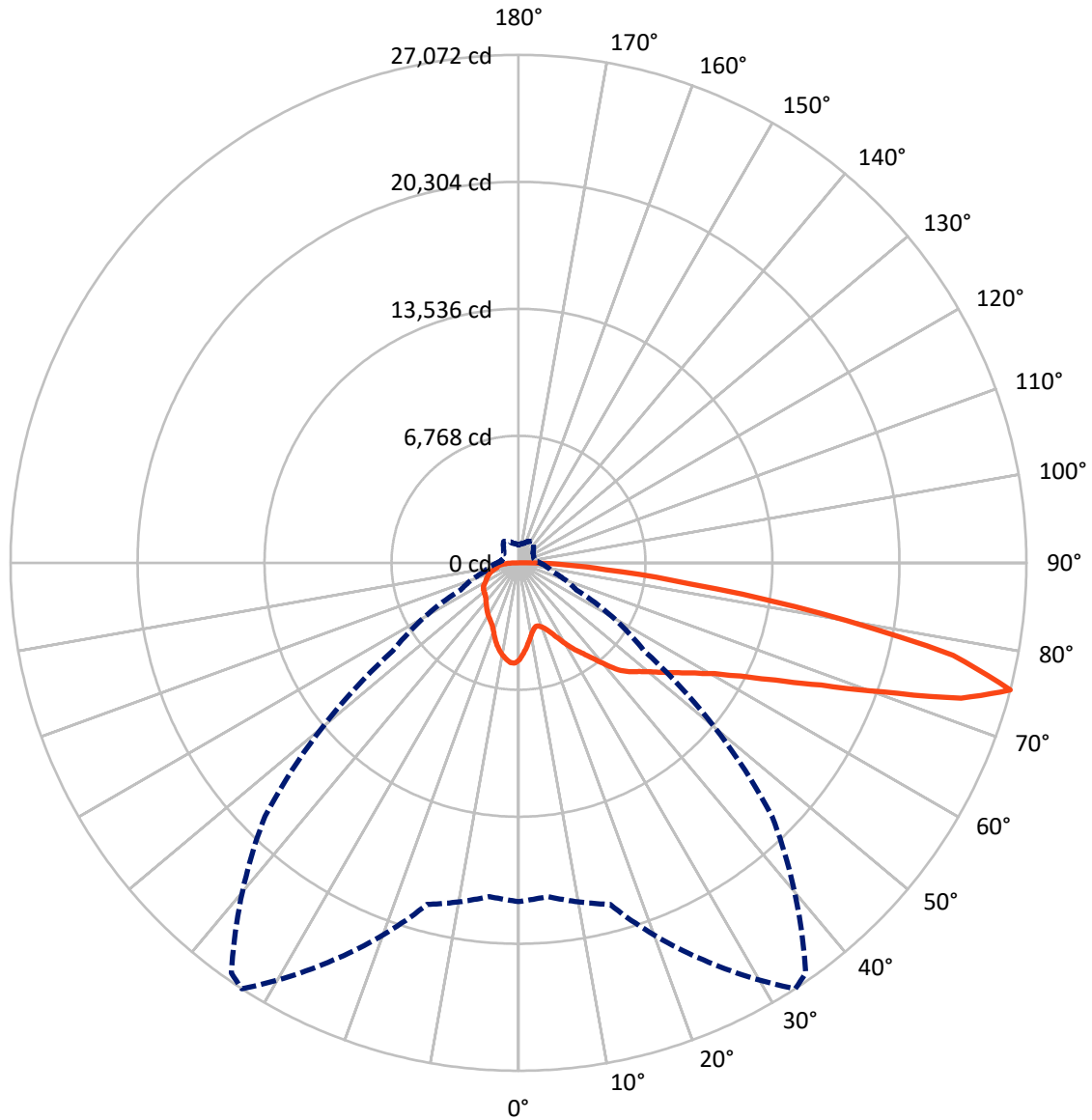
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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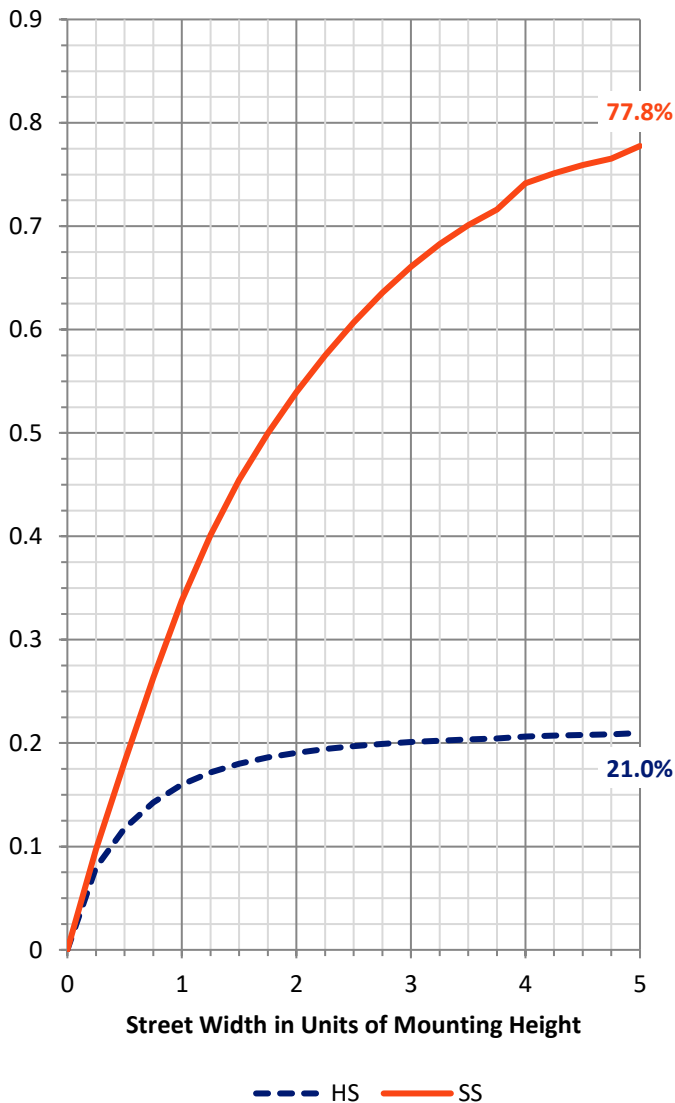
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7113.8	0.0	7113.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	26015.8	0.0	26015.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	33129.6	0.0	33129.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.3	1.4
10°-20°	1268.4	3.8
20°-30°	2071.5	6.3
30°-40°	3084.9	9.3
40°-50°	4424.6	13.4
50°-60°	6074.3	18.3
60°-70°	7604.7	23.0
70°-80°	6879.6	20.8
80°-90°	1253.2	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°	33129.6	100.0
0°-180°	33129.6	100.0



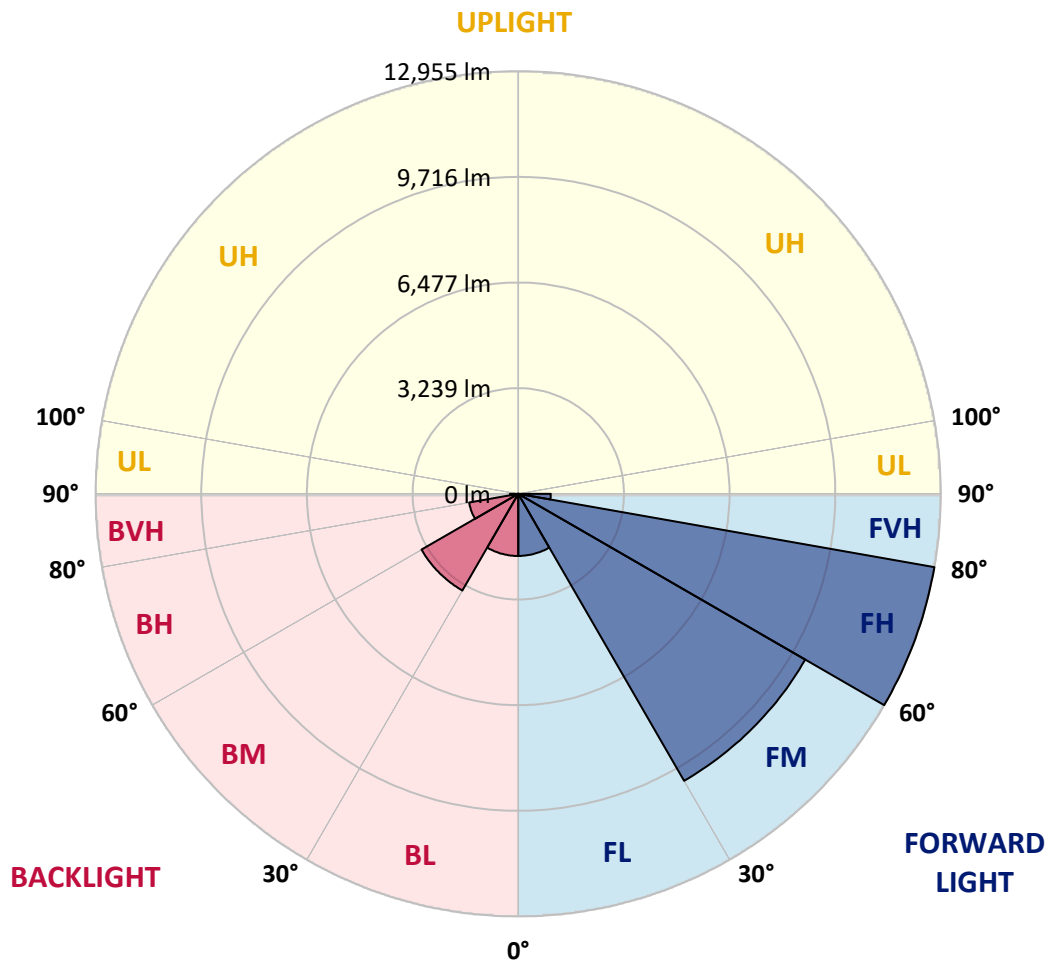
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.8	5.7			
FM (30°-60°)	10160.1	30.7			
FH (60°-80°)	12954.8	39.1			G5
FVH (80°-90°)	998.0	3.0			G5
BL (0°-30°)	1905.4	5.8	B3/2500		
BM (30°-60°)	3423.7	10.3	B3/5000		
BH (60°-80°)	1529.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	255.1	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°	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4
2.5°	4808.7	4790.4	4824.8	4829.3	4859.0	4870.5	4911.7	4975.8	5028.4	5089.0	5144.0
5°	4372.7	4360.1	4408.2	4442.5	4507.8	4535.1	4632.5	4768.7	4890.0	5027.3	5152.0
7.5°	3958.4	3951.5	4005.4	4083.2	4158.7	4196.4	4364.7	4562.6	4765.2	4987.2	5178.4
10°	3609.4	3607.1	3658.6	3735.2	3846.3	3888.7	4106.1	4367.0	4650.8	4956.3	5223.0
12.5°	3413.7	3421.7	3445.7	3509.8	3612.8	3655.2	3896.7	4203.3	4554.6	4946.1	5288.2
15°	3461.7	3474.4	3433.1	3430.9	3504.1	3537.3	3763.9	4086.6	4486.0	4963.2	5383.1
17.5°	3666.6	3668.9	3560.2	3491.5	3536.2	3553.3	3722.7	4020.2	4445.9	5002.1	5502.2
20°	3955.0	3949.3	3757.0	3642.5	3666.6	3671.2	3781.1	4021.4	4442.5	5069.6	5656.7
22.5°	4337.2	4294.9	4036.2	3880.6	3874.9	3868.0	3930.9	4106.1	4492.9	5179.5	5840.9
25°	4836.1	4796.1	4440.2	4227.4	4181.6	4164.4	4173.6	4286.9	4592.4	5297.3	6047.0
27.5°	5391.1	5321.4	4978.1	4677.1	4582.1	4558.1	4503.2	4542.0	4701.1	5410.6	6291.9
30°	5855.8	5818.1	5518.2	5161.1	5049.0	5014.7	4870.5	4828.1	4857.9	5565.2	6600.8
32.5°	6115.6	6090.4	5908.4	5620.0	5516.0	5467.9	5264.2	5179.5	5109.6	5808.9	7019.7
35°	6430.3	6414.3	6304.4	6095.0	5940.5	5890.2	5732.2	5644.1	5464.5	6144.2	7560.9
37.5°	6830.9	6813.6	6815.9	6646.6	6462.3	6415.4	6311.2	6218.5	5924.5	6584.7	8149.2
40°	7284.0	7250.8	7238.2	7230.2	7113.5	7087.2	7032.3	6906.4	6501.3	7111.2	8729.3
42.5°	7966.0	7848.2	7596.4	7691.4	7807.0	7793.2	7837.9	7657.0	7142.1	7733.7	9295.8
45°	8624.1	8430.7	7995.8	8016.4	8269.3	8346.0	8680.2	8552.0	7836.7	8415.8	9881.8
47.5°	8923.9	8777.4	8407.8	8408.9	8659.6	8818.6	9551.1	9459.5	8566.9	9190.6	10597.0
50°	9259.2	9112.8	8780.9	8905.6	9124.1	9293.6	10392.2	10345.2	9261.5	10038.5	11454.1
52.5°	9625.4	9377.1	9166.5	9389.6	9696.4	9893.2	11234.4	11106.3	9898.9	10892.2	12439.4
55°	9630.0	9562.4	9722.7	9886.3	10345.2	10586.7	12116.7	11778.0	10418.4	11731.1	13241.7
57.5°	10178.2	10068.3	10408.2	10483.7	11083.4	11355.8	12994.4	12362.8	10947.2	12374.2	13674.3
60°	10903.7	10809.9	11087.9	11287.1	11996.6	12360.5	13931.8	12963.6	11362.6	12859.5	13653.6
62.5°	12156.8	12050.3	12047.0	12326.1	13281.7	13705.1	14983.4	13552.9	11527.3	12955.6	13071.1
65°	13991.2	13821.8	13502.6	13635.3	15056.7	15479.0	16158.7	13979.8	11309.9	12440.6	11570.8
67.5°	15776.5	15770.7	15378.3	15650.6	17400.4	17739.1	17497.6	14022.1	10631.3	10647.3	8909.0
70°	17555.9	17578.9	17512.5	18460.0	20566.9	20919.3	18923.6	13453.4	9105.9	7689.1	5337.4
72.5°	18965.8	18960.2	19294.3	21737.6	24676.3	24597.4	20125.2	11730.0	6537.9	4150.7	2550.9
75°	18052.6	17853.5	18849.1	23360.3	27071.5	26685.9	19103.2	8182.3	3393.1	1889.4	1373.3
77.5°	11774.6	11963.4	13424.7	19297.8	23679.6	23210.3	14015.2	3817.7	1598.7	1239.3	995.6
80°	4264.0	4463.1	6286.1	10931.2	16314.3	16237.6	6901.7	1568.9	1081.4	936.1	725.6
82.5°	1467.1	1540.3	2479.9	4854.5	9211.1	9554.4	2596.6	891.5	786.2	663.7	496.7
85°	575.6	659.2	1134.1	2335.7	4646.2	4680.6	1051.7	533.3	547.0	434.8	272.4
87.5°	218.5	265.5	542.4	1084.9	2121.7	1948.9	376.5	254.0	311.2	258.6	129.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4	5178.4
2.5°	5186.4	5210.3	5260.7	5295.1	5331.7	5342.0	5346.5	5355.7	5364.9	5361.4	5362.5
5°	5218.3	5265.3	5346.5	5380.9	5396.9	5378.6	5343.2	5314.5	5293.9	5282.4	5279.1
7.5°	5271.1	5337.4	5424.4	5418.6	5382.0	5300.8	5209.2	5140.6	5083.4	5062.8	5051.3
10°	5340.8	5418.6	5479.3	5414.1	5307.7	5166.9	5029.6	4923.1	4837.3	4804.1	4798.4
12.5°	5430.1	5509.1	5520.5	5382.0	5205.8	5013.6	4827.0	4686.2	4558.1	4516.9	4507.8
15°	5545.7	5620.0	5549.1	5325.9	5079.9	4821.3	4579.9	4388.7	4253.6	4203.3	4185.0
17.5°	5667.0	5738.0	5554.8	5233.2	4915.1	4593.6	4290.3	4094.6	3940.1	3881.8	3874.9
20°	5812.3	5844.3	5530.8	5100.5	4688.6	4298.3	3979.0	3794.8	3712.4	3671.2	3666.6
22.5°	5992.0	5957.6	5475.9	4920.8	4401.3	3957.3	3697.5	3611.7	3591.1	3581.9	3585.3
25°	6181.9	6076.7	5394.6	4686.2	4038.5	3616.3	3491.5	3515.6	3543.0	3539.6	3539.6
27.5°	6391.3	6198.0	5269.9	4375.0	3636.9	3337.0	3351.9	3440.0	3481.2	3480.1	3479.0
30°	6660.3	6335.3	5110.8	4000.8	3261.5	3140.2	3230.6	3338.2	3394.3	3392.0	3393.1
32.5°	6991.1	6486.4	4894.5	3583.1	2990.3	2994.8	3099.0	3205.5	3270.7	3264.9	3266.1
35°	7377.9	6655.7	4601.6	3171.1	2810.6	2879.2	2961.7	3036.0	3097.9	3089.9	3081.8
37.5°	7799.0	6821.6	4212.5	2802.6	2664.1	2771.7	2840.4	2853.0	2881.6	2861.0	2846.1
40°	8199.5	6948.7	3711.2	2500.5	2516.5	2680.2	2724.8	2674.4	2623.0	2616.1	2595.5
42.5°	8548.5	6991.1	3204.2	2259.0	2360.8	2584.0	2611.5	2506.2	2413.5	2370.0	2351.7
45°	8917.1	7005.9	2731.7	2056.5	2210.9	2498.2	2527.9	2387.2	2256.8	2162.9	2132.0
47.5°	9398.8	7113.5	2364.3	1906.5	2096.5	2440.9	2483.3	2292.2	2122.8	1988.9	1960.3
50°	10029.4	7326.3	2065.6	1792.1	2022.1	2403.2	2451.3	2199.5	2013.0	1851.6	1823.0
52.5°	10729.8	7522.1	1824.2	1699.4	1950.0	2336.8	2410.1	2133.2	1910.0	1724.6	1693.6
55°	11219.6	7372.1	1629.6	1603.3	1856.2	2241.9	2352.8	2077.1	1762.4	1601.0	1573.6
57.5°	11313.4	6859.5	1482.0	1503.7	1742.9	2122.8	2264.8	1952.3	1682.3	1547.2	1518.6
60°	11057.0	6145.3	1372.1	1412.1	1621.6	1972.9	2100.0	1864.2	1605.6	1490.0	1466.0
62.5°	10412.7	5414.1	1290.8	1329.8	1508.3	1820.7	1997.0	1771.5	1527.7	1424.8	1400.8
65°	9111.6	4545.5	1213.1	1256.6	1403.0	1689.1	1904.3	1685.6	1451.1	1372.1	1349.3
67.5°	6877.7	3404.5	1139.8	1178.7	1309.2	1574.7	1803.6	1601.0	1376.7	1326.3	1298.9
70°	4050.0	2132.0	1056.3	1097.5	1210.7	1455.6	1696.0	1508.3	1284.0	1261.1	1225.6
72.5°	1884.8	1282.8	961.3	1001.3	1087.2	1296.6	1557.5	1387.0	1174.1	1123.8	1075.8
75°	1124.9	938.4	849.1	884.6	945.2	1127.2	1383.5	1263.4	1070.0	1003.6	953.3
77.5°	841.1	717.6	725.6	763.3	812.5	986.4	1225.6	1166.1	989.9	938.4	904.1
80°	605.4	544.8	591.6	632.8	684.3	897.2	1174.1	1078.0	894.9	826.3	794.2
82.5°	404.0	391.3	445.2	487.5	537.9	785.0	1103.2	944.1	764.4	677.5	606.5
85°	223.2	235.8	299.9	318.1	361.6	552.8	904.1	758.7	575.6	463.4	442.9
87.5°	92.7	108.7	161.3	155.7	192.3	329.6	595.1	457.8	366.2	273.5	212.9
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)