

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: P383377

Luminaire Tested: **GLEON-SA6D-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44199.1 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

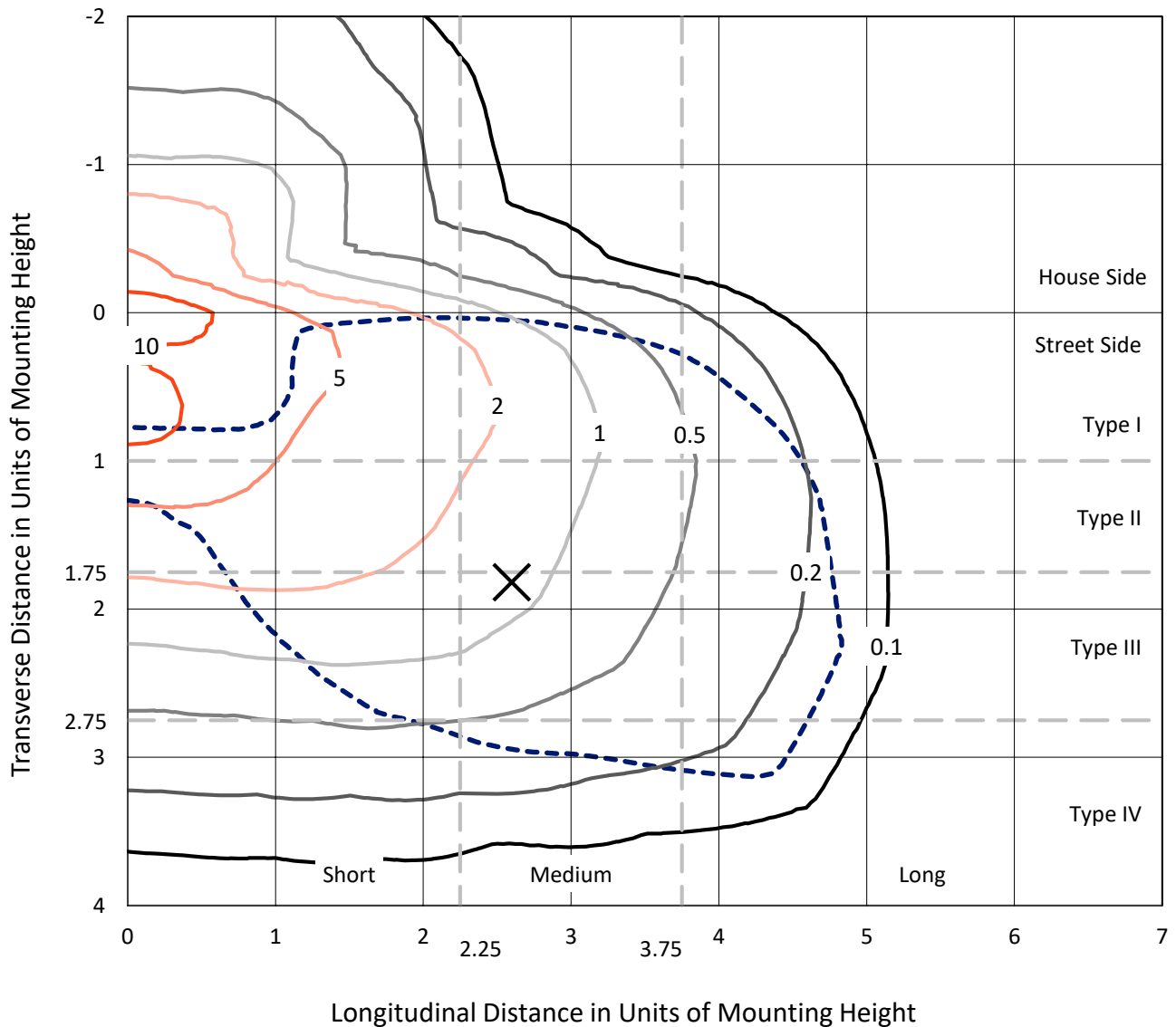
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

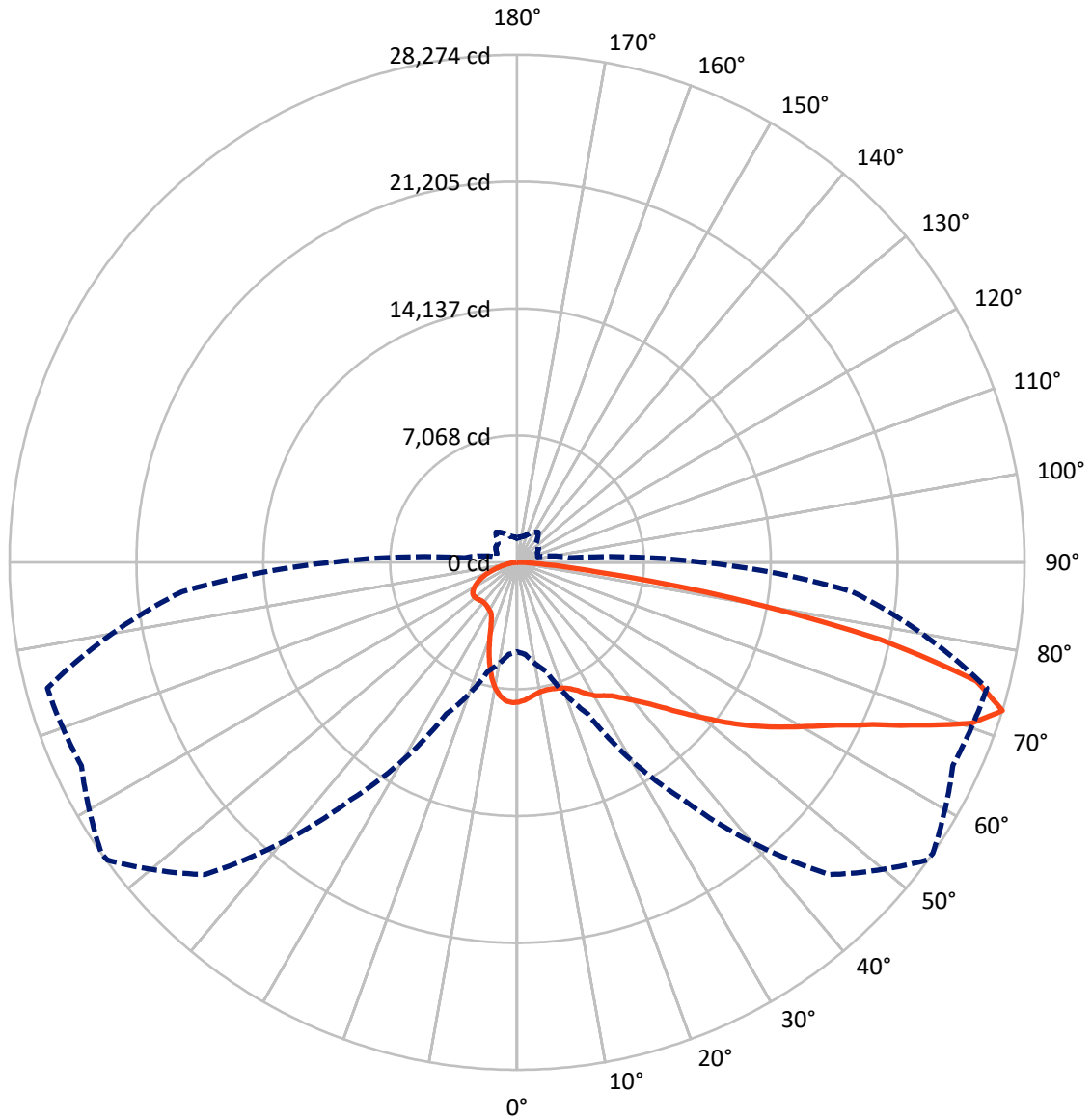
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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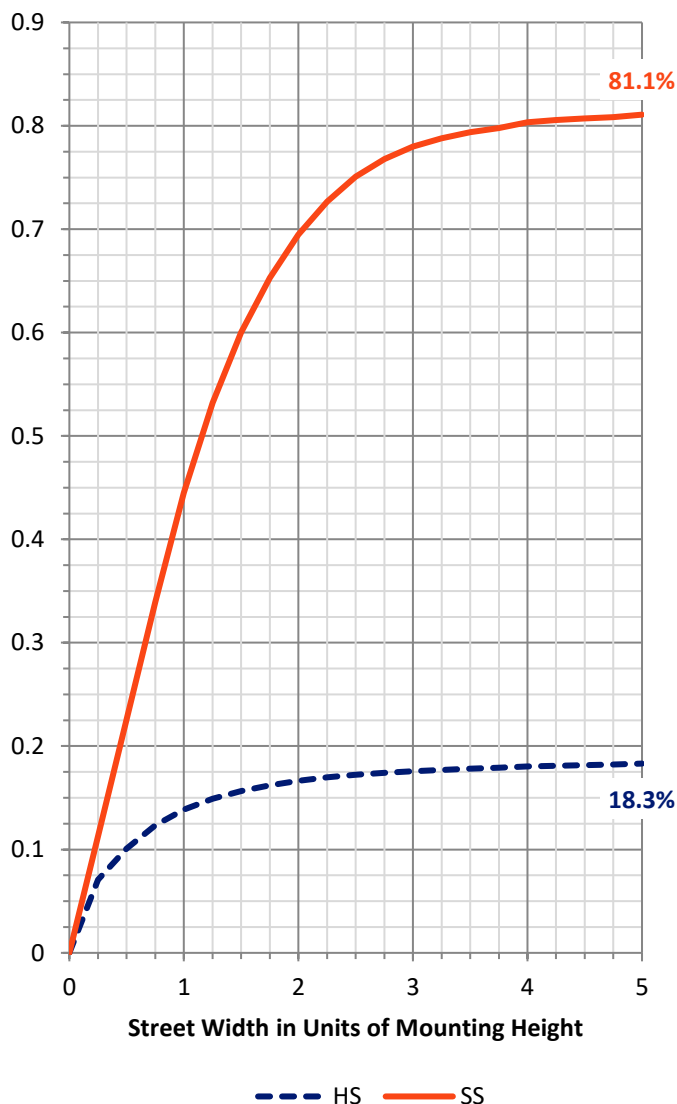
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8215.2	0.0	8215.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	35984.0	0.0	35984.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	44199.1	0.0	44199.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.4	1.6
10°-20°	1878.1	4.2
20°-30°	3096.5	7.0
30°-40°	4580.5	10.4
40°-50°	6393.5	14.5
50°-60°	8324.5	18.8
60°-70°	10230.6	23.1
70°-80°	8019.5	18.1
80°-90°	970.5	2.2
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°	44199.1	100.0
0°-180°	44199.1	100.0

Coefficient of Utilization

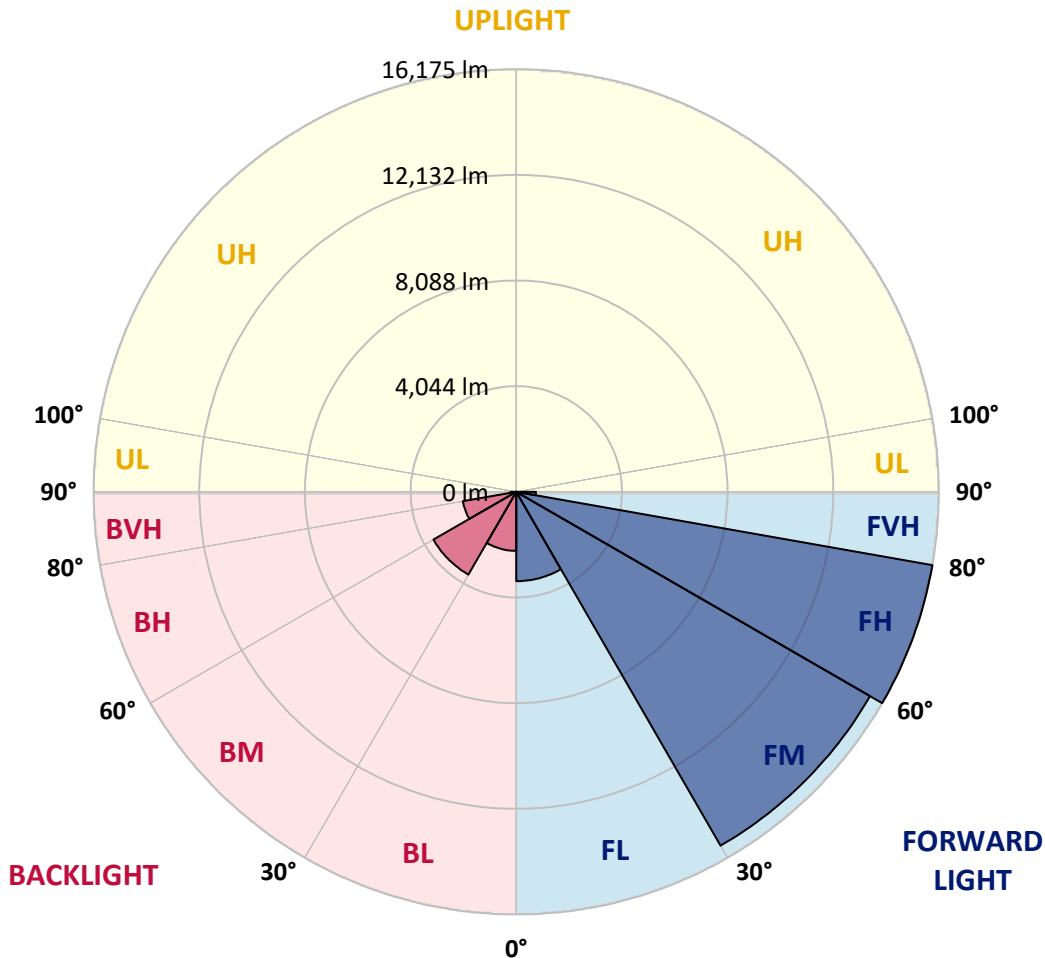


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3419.7	7.7			
FM (30°-60°)	15638.5	35.4			
FH (60°-80°)	16175.4	36.6			G5
FVH (80°-90°)	750.3	1.7			G5
BL (0°-30°)	2260.3	5.1	B3/2500		
BM (30°-60°)	3660.0	8.3	B3/5000		
BH (60°-80°)	2074.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	220.2	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7
2.5°	7542.0	7524.1	7546.5	7577.9	7612.1	7658.4	7685.3	7697.3	7743.5	7761.5	7800.2
5°	7192.7	7183.7	7221.0	7274.7	7350.9	7458.3	7545.0	7561.4	7683.8	7770.4	7849.5
7.5°	6938.9	6938.9	6982.1	7046.3	7131.5	7276.2	7398.6	7421.1	7628.5	7815.2	7961.5
10°	6737.3	6744.8	6795.5	6871.7	6971.7	7125.5	7288.2	7313.6	7613.6	7919.6	8152.5
12.5°	6603.0	6620.9	6667.2	6735.8	6859.7	7046.3	7252.4	7286.8	7645.0	8069.0	8382.4
15°	6688.0	6717.9	6722.4	6750.7	6819.4	7022.5	7273.2	7309.1	7712.2	8221.3	8643.7
17.5°	7061.3	7071.8	7025.5	6965.7	6932.9	7062.8	7335.9	7373.3	7792.8	8372.0	8894.5
20°	7628.5	7622.6	7522.6	7361.4	7194.2	7215.0	7439.0	7477.8	7901.8	8504.9	9145.4
22.5°	8345.2	8324.2	8170.5	7873.4	7588.3	7468.9	7619.6	7652.5	8066.0	8694.5	9414.0
25°	9214.0	9167.7	8964.7	8566.1	8146.6	7839.1	7891.3	7922.6	8304.8	8906.4	9660.3
27.5°	10130.7	10084.4	9826.1	9343.9	8785.5	8306.3	8266.0	8292.9	8576.6	9063.2	9842.5
30°	11089.0	11039.8	10803.9	10263.5	9463.3	8790.0	8615.3	8625.9	8767.6	9148.4	9991.8
32.5°	12052.0	12005.7	11741.4	11114.4	10199.3	9309.5	8867.7	8854.3	8882.6	9236.4	10160.5
35°	13028.3	13046.2	12737.1	12043.0	11014.4	9887.3	9166.2	9137.8	9075.1	9417.0	10399.3
37.5°	14073.3	14061.3	13661.2	12935.7	11866.8	10514.3	9594.7	9590.2	9373.7	9758.9	10774.1
40°	14771.9	14779.5	14536.1	13849.4	12728.2	11208.5	10144.1	10133.7	9850.0	10271.0	11265.2
42.5°	15045.1	15094.4	15157.1	14721.2	13629.9	12013.1	10799.4	10784.5	10514.3	11005.5	11843.0
45°	15064.6	15163.1	15551.3	15496.0	14543.6	12934.3	11636.9	11595.2	11401.0	11981.8	12532.7
47.5°	14897.4	14998.8	15643.8	15957.3	15360.2	13906.1	12616.2	12583.4	12416.2	13202.9	13279.1
50°	14531.6	14628.7	15452.7	16182.8	16031.9	14840.7	13744.9	13658.3	13568.7	14613.7	14133.0
52.5°	13846.4	14033.0	15197.5	16236.5	16433.5	15670.7	14931.7	14875.0	14924.2	16102.1	14988.4
55°	12223.7	12432.6	14539.0	16191.7	16730.6	16367.9	16118.6	16115.6	16370.8	17663.6	15906.5
57.5°	11314.5	11462.2	13198.4	16115.6	17082.9	17060.5	17293.4	17321.8	17818.9	19364.1	16868.0
60°	10800.9	10956.2	12519.3	15833.4	17629.4	17956.2	18492.2	18549.0	19290.9	21246.6	18025.0
62.5°	10333.7	10503.9	12098.2	15258.7	18272.8	19237.1	19928.3	19979.1	20849.4	23181.3	19143.1
65°	9534.9	9727.6	11481.7	14880.9	18858.0	20907.7	21754.2	21788.4	22639.4	25208.6	19998.6
67.5°	8406.4	8582.5	10318.8	14046.4	19290.9	22936.5	24181.6	24201.0	24414.5	26640.3	20435.9
70°	7088.1	7155.3	8661.6	12323.6	18778.9	24833.9	26841.8	26846.3	26032.7	27556.9	20364.3
72.5°	4980.2	5138.5	6287.9	9329.0	16137.9	24602.5	28222.7	28273.5	26785.1	27094.2	18737.1
75°	3054.5	3221.6	3944.2	5653.5	10238.1	19349.1	26076.0	26428.3	25374.3	24157.6	15306.4
77.5°	2042.2	2104.9	2573.7	3296.3	4638.4	11132.4	20047.7	20710.6	21079.3	17617.3	9788.8
80°	1139.1	1258.5	1706.3	2048.2	2063.2	4423.4	12020.6	12175.9	11728.0	7015.0	3020.1
82.5°	603.1	668.9	1139.1	1203.3	1125.6	1481.0	4480.1	4484.6	3747.2	1881.0	897.2
85°	467.3	522.5	780.7	734.5	574.8	656.8	1477.9	1558.6	1274.9	770.3	292.6
87.5°	232.9	289.6	530.0	465.8	225.4	188.1	528.5	564.3	503.1	301.5	106.0
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°	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7	7795.7
2.5°	7815.2	7828.6	7845.0	7827.1	7821.2	7797.2	7757.0	7748.0	7727.1	7728.6	7740.5
5°	7883.9	7906.2	7897.3	7828.6	7746.5	7631.5	7512.1	7410.6	7343.5	7338.9	7334.4
7.5°	8015.2	8030.1	7960.0	7764.4	7534.5	7268.8	7018.0	6798.5	6665.7	6632.8	6625.4
10°	8221.3	8218.3	8025.7	7631.5	7173.3	6698.5	6295.4	5990.9	5813.2	5761.0	5747.6
12.5°	8451.2	8416.8	8048.1	7389.7	6662.7	6004.3	5493.8	5154.9	4969.8	4910.1	4895.1
15°	8688.5	8603.4	7992.9	7028.4	6035.7	5256.4	4720.4	4407.0	4306.9	4274.1	4268.2
17.5°	8909.4	8745.3	7834.6	6538.8	5320.6	4511.5	4093.5	3968.0	3992.0	4035.3	4036.8
20°	9125.9	8840.8	7580.8	5920.7	4566.7	3897.9	3756.1	3848.6	3962.1	4050.2	4062.1
22.5°	9339.4	8907.9	7253.9	5207.2	3891.9	3553.0	3653.1	3821.8	3951.6	4047.2	4063.6
25°	9518.6	8924.4	6803.0	4445.8	3423.2	3423.2	3603.8	3763.5	3891.9	3986.0	4002.4
27.5°	9584.2	8813.9	6167.0	3741.1	3187.3	3363.4	3535.1	3668.0	3777.0	3877.0	3894.9
30°	9609.7	8609.4	5432.6	3175.4	3090.2	3299.3	3442.5	3556.0	3659.0	3753.1	3769.5
32.5°	9614.1	8363.1	4653.3	2854.4	3023.1	3232.1	3327.6	3427.6	3538.1	3575.5	3581.4
35°	9642.4	8072.0	3832.2	2690.1	2960.4	3169.4	3245.5	3317.1	3138.0	3151.4	3163.3
37.5°	9724.6	7783.8	3145.5	2597.6	2920.0	3136.5	3227.6	2967.8	2827.5	2794.6	2790.2
40°	9878.3	7476.3	2636.4	2522.9	2905.1	3152.9	3112.7	2770.8	2529.0	2348.2	2321.4
42.5°	10091.8	7144.9	2311.0	2473.7	2915.6	3232.1	2952.9	2581.1	2179.6	2063.2	2048.2
45°	10332.2	6797.0	2134.8	2439.4	2951.4	3293.3	2920.0	2328.9	2016.9	1928.8	1921.3
47.5°	10565.1	6371.6	2043.7	2424.4	3000.7	3244.0	2781.2	2251.3	1939.2	1893.0	1897.5
50°	10832.3	5987.9	1988.5	2408.0	3043.9	3212.6	2624.4	2210.9	1909.4	1966.1	2025.8
52.5°	11057.7	5590.8	1939.2	2375.2	3060.4	3157.4	2584.2	2218.4	1909.4	2018.4	2075.1
55°	11324.9	5290.7	1882.5	2306.5	3029.0	3000.7	2555.8	2263.2	1931.8	1863.1	1869.1
57.5°	11669.8	5192.2	1819.8	2199.0	2924.5	2772.3	2542.4	2306.5	1918.3	1875.0	1890.0
60°	12147.5	5296.7	1794.4	2058.6	2761.9	2593.1	2543.9	2284.1	1824.2	1749.6	1751.1
62.5°	12602.8	5413.1	1792.9	1970.6	2561.8	2433.4	2509.5	2210.9	1776.6	1733.2	1749.6
65°	12752.1	5295.2	1721.3	1872.0	2336.3	2242.3	2446.8	2133.3	1740.7	1675.0	1672.0
67.5°	12552.0	4929.5	1576.5	1712.3	2078.1	2019.9	2364.7	2040.7	1684.0	1630.2	1621.3
70°	11957.9	4112.9	1397.3	1501.8	1784.0	1769.0	2234.8	1933.2	1607.9	1561.6	1522.7
72.5°	10359.0	2930.5	1177.8	1249.6	1452.6	1500.4	2055.6	1792.9	1500.4	1400.3	1340.6
75°	8507.9	2169.1	967.4	982.3	1103.2	1233.1	1809.3	1628.7	1373.5	1203.3	1157.0
77.5°	5210.1	1327.2	770.3	776.3	791.3	983.8	1489.9	1445.1	1212.2	1003.2	970.4
80°	1686.9	724.0	556.9	585.2	540.4	721.0	1152.5	1230.1	1040.5	839.0	803.2
82.5°	641.9	422.5	376.2	395.6	374.7	483.7	840.4	985.3	852.5	689.7	561.4
85°	310.5	238.8	222.5	249.3	231.4	247.8	537.4	725.5	646.4	449.4	418.0
87.5°	110.5	106.0	85.1	115.0	98.6	88.1	164.2	365.7	426.9	309.0	276.2
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)