

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: P317901

Luminaire Tested: **GLEON-SA7D-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317901
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-SA7D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 41250 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

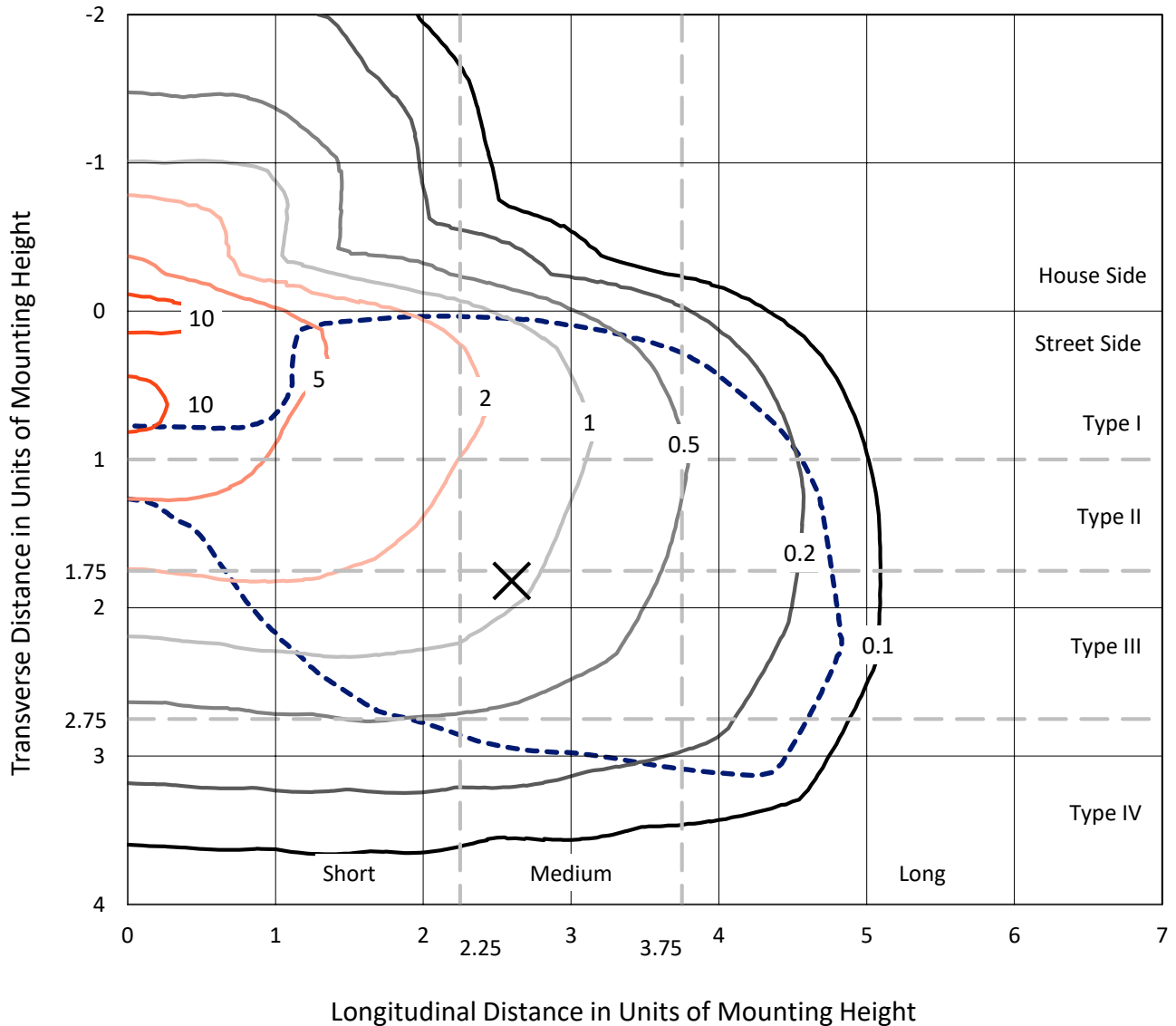
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

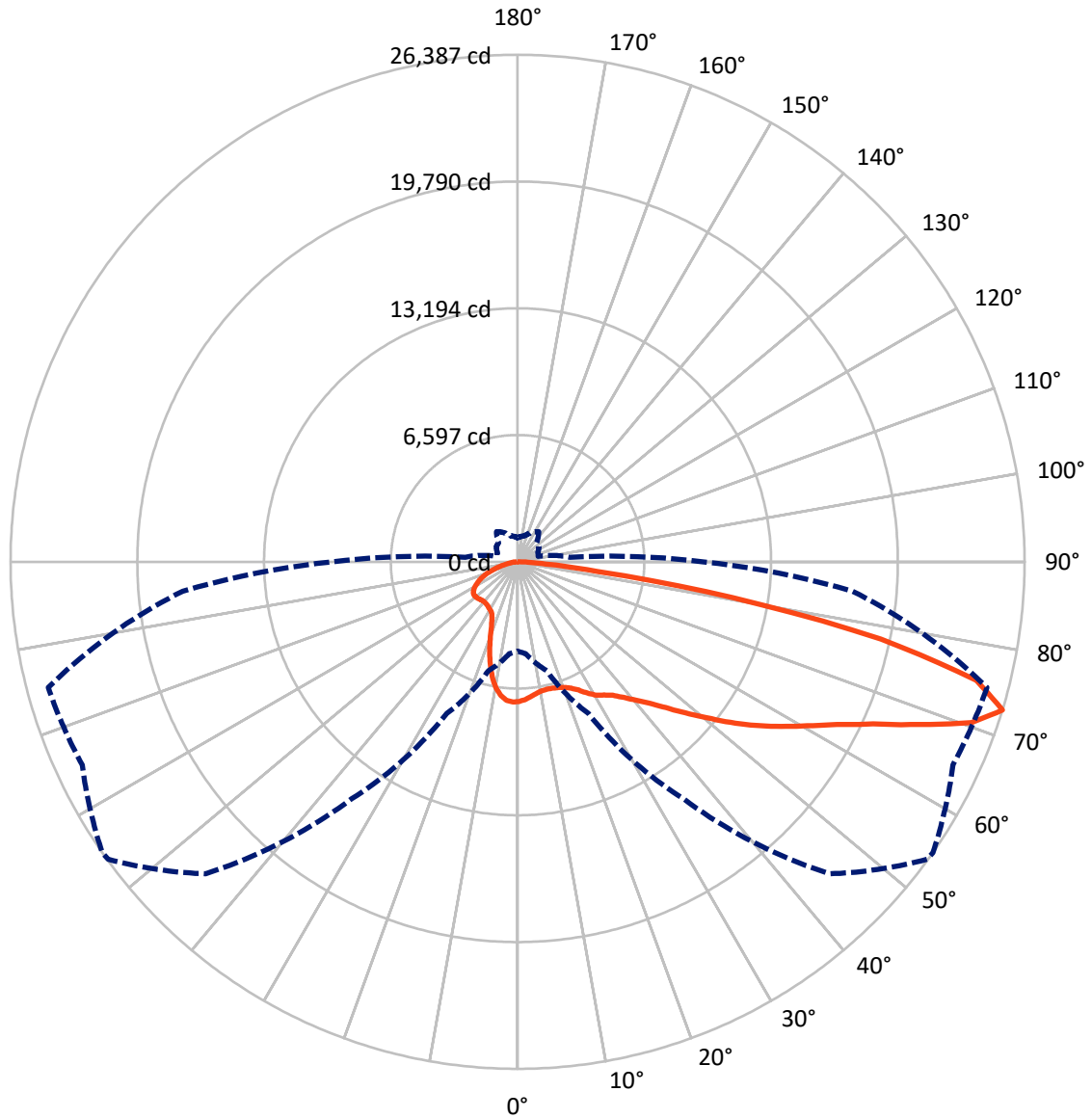
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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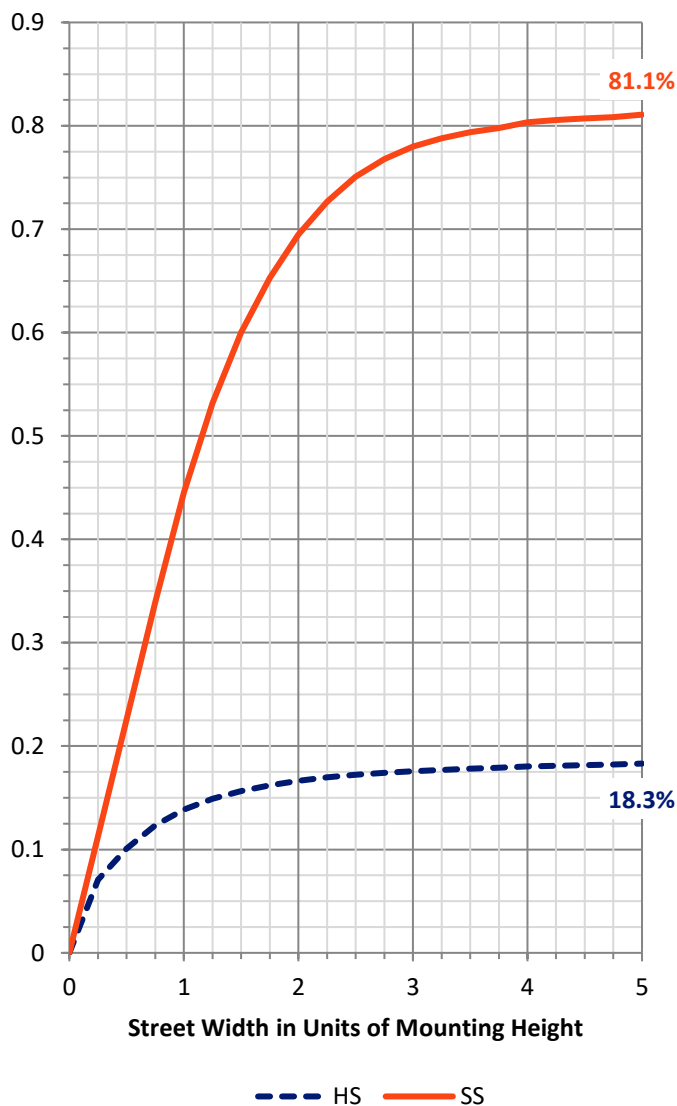
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7667.0	0.0	7667.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	33583.0	0.0	33583.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	41250.0	0.0	41250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.4	1.6
10°-20°	1752.8	4.2
20°-30°	2889.9	7.0
30°-40°	4274.9	10.4
40°-50°	5966.9	14.5
50°-60°	7769.1	18.8
60°-70°	9547.9	23.1
70°-80°	7484.4	18.1
80°-90°	905.7	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°	41250.0	100.0
0°-180°	41250.0	100.0

Coefficient of Utilization

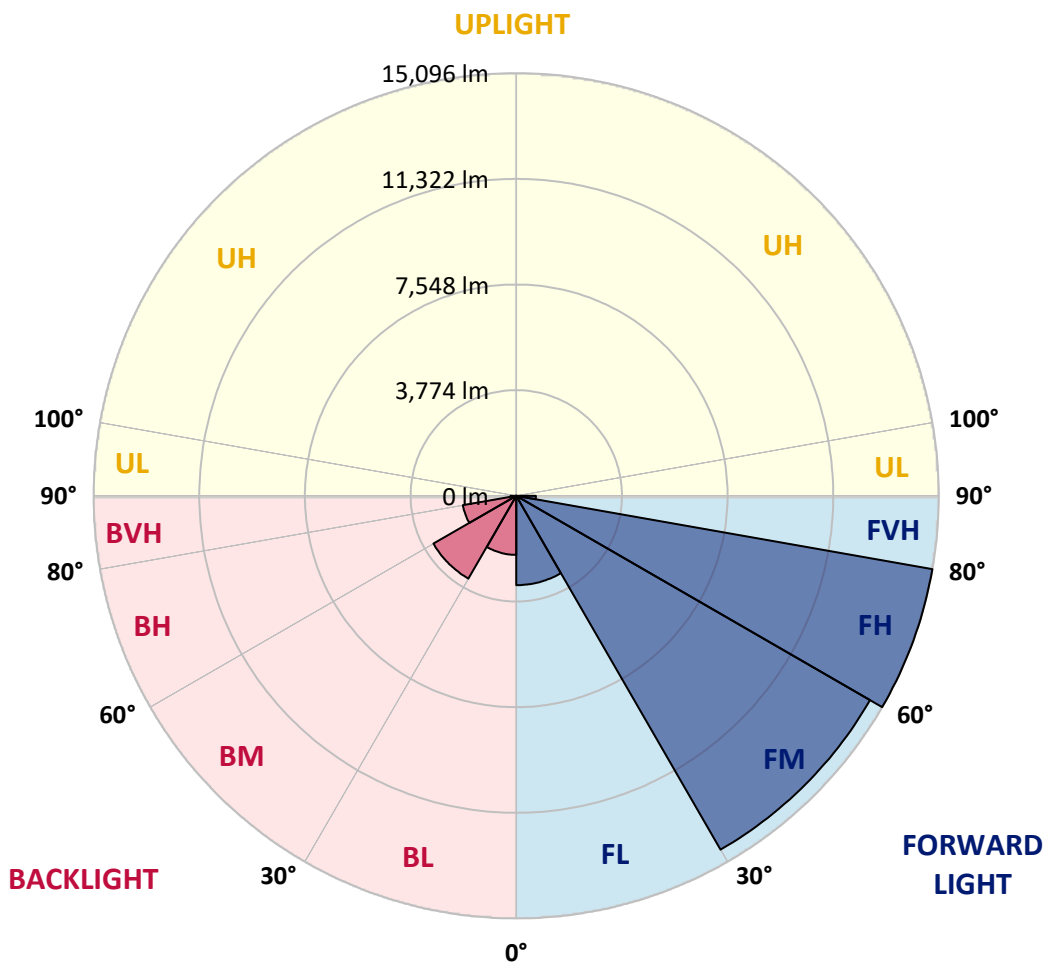


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3191.5	7.7			
FM (30°-60°)	14595.1	35.4			
FH (60°-80°)	15096.1	36.6			G5
FVH (80°-90°)	700.3	1.7			G4/750
BL (0°-30°)	2109.5	5.1	B3/2500		
BM (30°-60°)	3415.8	8.3	B3/5000		
BH (60°-80°)	1936.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	205.5	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°	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6
2.5°	7038.8	7022.0	7042.9	7072.2	7104.2	7147.4	7172.5	7183.7	7226.8	7243.6	7279.8
5°	6712.7	6704.4	6739.2	6789.4	6860.4	6960.7	7041.5	7056.9	7171.1	7251.9	7325.8
7.5°	6475.9	6475.9	6516.3	6576.2	6655.6	6790.8	6905.0	6925.9	7119.6	7293.7	7430.3
10°	6287.8	6294.8	6342.1	6413.2	6506.5	6650.0	6801.9	6825.6	7105.6	7391.3	7608.6
12.5°	6162.4	6179.1	6222.3	6286.4	6402.0	6576.2	6768.5	6800.5	7134.9	7530.6	7823.2
15°	6241.8	6269.7	6273.9	6300.3	6364.4	6553.9	6788.0	6821.4	7197.6	7672.7	8067.0
17.5°	6590.1	6599.9	6556.7	6501.0	6470.3	6591.5	6846.5	6881.3	7272.8	7813.4	8301.1
20°	7119.6	7114.0	7020.6	6870.2	6714.1	6733.6	6942.6	6978.8	7374.5	7937.4	8535.1
22.5°	7788.3	7768.8	7625.3	7348.1	7081.9	6970.5	7111.2	7141.9	7527.8	8114.4	8785.9
25°	8599.2	8556.0	8366.5	7994.5	7603.0	7316.0	7364.8	7394.0	7750.7	8312.2	9015.8
27.5°	9454.7	9411.5	9170.4	8720.4	8199.3	7752.1	7714.5	7739.6	8004.3	8458.5	9185.8
30°	10349.1	10303.2	10083.0	9578.7	8831.9	8203.5	8040.5	8050.3	8182.6	8537.9	9325.1
32.5°	11247.8	11204.6	10958.0	10372.8	9518.8	8688.4	8276.0	8263.4	8289.9	8620.1	9482.5
35°	12159.0	12175.7	11887.3	11239.4	10279.5	9227.6	8554.6	8528.2	8469.6	8788.7	9705.5
37.5°	13134.3	13123.1	12749.7	12072.6	11075.0	9812.7	8954.5	8950.3	8748.3	9107.8	10055.2
40°	13786.3	13793.3	13566.2	12925.3	11878.9	10460.6	9467.2	9457.5	9192.7	9585.6	10513.6
42.5°	14041.3	14087.3	14145.8	13739.0	12720.5	11211.6	10078.9	10064.9	9812.7	10271.1	11052.7
45°	14059.4	14151.4	14513.6	14462.1	13573.2	12071.2	10860.5	10821.5	10640.3	11182.3	11696.4
47.5°	13903.4	13998.1	14600.0	14892.6	14335.3	12978.2	11774.5	11743.8	11587.8	12322.0	12393.1
50°	13562.0	13652.6	14421.7	15103.0	14962.2	13850.4	12827.8	12747.0	12663.4	13638.6	13190.0
52.5°	12922.5	13096.7	14183.4	15153.1	15337.0	14625.1	13935.4	13882.5	13928.4	15027.7	13988.3
55°	11408.0	11603.1	13569.0	15111.3	15614.3	15275.7	15043.0	15040.3	15278.5	16485.1	14845.2
57.5°	10559.5	10697.5	12317.8	15040.3	15943.1	15922.2	16139.5	16166.0	16630.0	18072.0	15742.5
60°	10080.2	10225.1	11683.9	14776.9	16453.0	16758.2	17258.3	17311.3	18003.7	19828.9	16822.2
62.5°	9644.2	9803.0	11291.0	14240.5	17053.5	17953.6	18598.7	18646.0	19458.3	21634.6	17865.8
65°	8898.8	9078.5	10715.6	13888.0	17599.7	19512.6	20302.6	20334.7	21128.8	23526.6	18664.1
67.5°	7845.5	8009.9	9630.2	13109.2	18003.7	21406.1	22568.1	22586.2	22785.4	24862.8	19072.4
70°	6615.2	6677.9	8083.7	11501.4	17525.8	23176.9	25050.8	25055.0	24295.7	25718.2	19005.5
72.5°	4647.9	4795.6	5868.4	8706.5	15061.2	22961.0	26339.6	26387.0	24997.9	25286.3	17486.8
75°	2850.6	3006.7	3681.0	5276.3	9555.0	18058.1	24336.1	24664.9	23681.3	22545.8	14285.1
77.5°	1906.0	1964.5	2402.0	3076.3	4328.9	10389.6	18710.1	19328.7	19672.9	16441.9	9135.6
80°	1063.1	1174.5	1592.5	1911.6	1925.5	4128.2	11218.5	11363.4	10945.5	6546.9	2818.6
82.5°	562.9	624.2	1063.1	1123.0	1050.5	1382.1	4181.2	4185.4	3497.1	1755.5	837.4
85°	436.1	487.6	728.7	685.5	536.4	613.0	1379.3	1454.6	1189.8	718.9	273.1
87.5°	217.3	270.3	494.6	434.7	210.4	175.6	493.2	526.7	469.5	281.4	98.9
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°	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6	7275.6
2.5°	7293.7	7306.3	7321.6	7304.9	7299.3	7277.0	7239.4	7231.0	7211.5	7212.9	7224.1
5°	7357.8	7378.7	7370.4	7306.3	7229.6	7122.4	7010.9	6916.2	6853.5	6849.3	6845.1
7.5°	7480.4	7494.4	7428.9	7246.4	7031.8	6783.8	6549.7	6344.9	6220.9	6190.3	6183.3
10°	7672.7	7669.9	7490.2	7122.4	6694.6	6251.6	5875.4	5591.2	5425.4	5376.6	5364.1
12.5°	7887.3	7855.2	7511.1	6896.6	6218.1	5603.7	5127.2	4810.9	4638.2	4582.4	4568.5
15°	8108.8	8029.4	7459.5	6559.5	5633.0	4905.7	4405.5	4112.9	4019.6	3988.9	3983.3
17.5°	8315.0	8161.7	7311.8	6102.5	4965.6	4210.4	3820.3	3703.3	3725.6	3766.0	3767.4
20°	8517.0	8250.9	7075.0	5525.7	4262.0	3637.8	3505.4	3591.8	3697.7	3779.9	3791.1
22.5°	8716.2	8313.6	6769.9	4859.7	3632.2	3316.0	3409.3	3566.7	3688.0	3777.1	3792.5
25°	8883.4	8328.9	6349.1	4149.1	3194.7	3194.7	3363.3	3512.4	3632.2	3720.0	3735.3
27.5°	8944.7	8225.8	5755.6	3491.5	2974.6	3139.0	3299.2	3423.2	3525.0	3618.3	3635.0
30°	8968.4	8034.9	5070.1	2963.5	2884.1	3079.1	3212.9	3318.7	3414.9	3502.7	3518.0
32.5°	8972.6	7805.1	4342.8	2663.9	2821.4	3016.4	3105.6	3198.9	3302.0	3336.9	3342.4
35°	8999.1	7533.4	3576.5	2510.7	2762.8	2957.9	3029.0	3095.8	2928.6	2941.2	2952.3
37.5°	9075.7	7264.5	2935.6	2424.3	2725.2	2927.2	3012.2	2769.8	2638.8	2608.2	2604.0
40°	9219.2	6977.5	2460.5	2354.6	2711.3	2942.6	2905.0	2585.9	2360.2	2191.6	2166.5
42.5°	9418.4	6668.2	2156.8	2308.6	2721.0	3016.4	2755.9	2408.9	2034.2	1925.5	1911.6
45°	9642.8	6343.5	1992.4	2276.6	2754.5	3073.5	2725.2	2173.5	1882.3	1800.1	1793.1
47.5°	9860.1	5946.4	1907.4	2262.7	2800.5	3027.6	2595.6	2101.0	1809.8	1766.7	1770.8
50°	10109.5	5588.4	1855.8	2247.3	2840.9	2998.3	2449.4	2063.4	1782.0	1834.9	1890.7
52.5°	10319.9	5217.8	1809.8	2216.7	2856.2	2946.7	2411.7	2070.4	1782.0	1883.7	1936.6
55°	10569.3	4937.7	1756.9	2152.6	2826.9	2800.5	2385.3	2112.2	1802.9	1738.8	1744.4
57.5°	10891.1	4845.8	1698.4	2052.3	2729.4	2587.3	2372.7	2152.6	1790.3	1749.9	1763.9
60°	11337.0	4943.3	1674.7	1921.3	2577.5	2420.1	2374.1	2131.7	1702.6	1632.9	1634.3
62.5°	11761.9	5052.0	1673.3	1839.1	2390.8	2271.0	2342.1	2063.4	1658.0	1617.6	1632.9
65°	11901.2	4941.9	1606.4	1747.2	2180.5	2092.7	2283.6	1991.0	1624.5	1563.2	1560.5
67.5°	11714.5	4600.6	1471.3	1598.1	1939.4	1885.1	2206.9	1904.6	1571.6	1521.4	1513.1
70°	11160.0	3838.4	1304.1	1401.6	1664.9	1651.0	2085.7	1804.3	1500.5	1457.4	1421.1
72.5°	9667.8	2735.0	1099.3	1166.2	1355.6	1400.2	1918.5	1673.3	1400.2	1306.9	1251.1
75°	7940.2	2024.4	902.8	916.8	1029.6	1150.8	1688.6	1520.0	1281.8	1123.0	1079.8
77.5°	4862.5	1238.6	718.9	724.5	738.4	918.2	1390.5	1348.7	1131.3	936.3	905.6
80°	1574.4	675.7	519.7	546.2	504.4	672.9	1075.6	1148.0	971.1	783.0	749.6
82.5°	599.1	394.3	351.1	369.2	349.7	451.4	784.4	919.6	795.6	643.7	523.9
85°	289.8	222.9	207.6	232.7	216.0	231.3	501.6	677.1	603.3	419.4	390.1
87.5°	103.1	98.9	79.4	107.3	92.0	82.2	153.3	341.3	398.5	288.4	257.8
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)