

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: P457618

Luminaire Tested: **GALN-SA9A-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35011 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

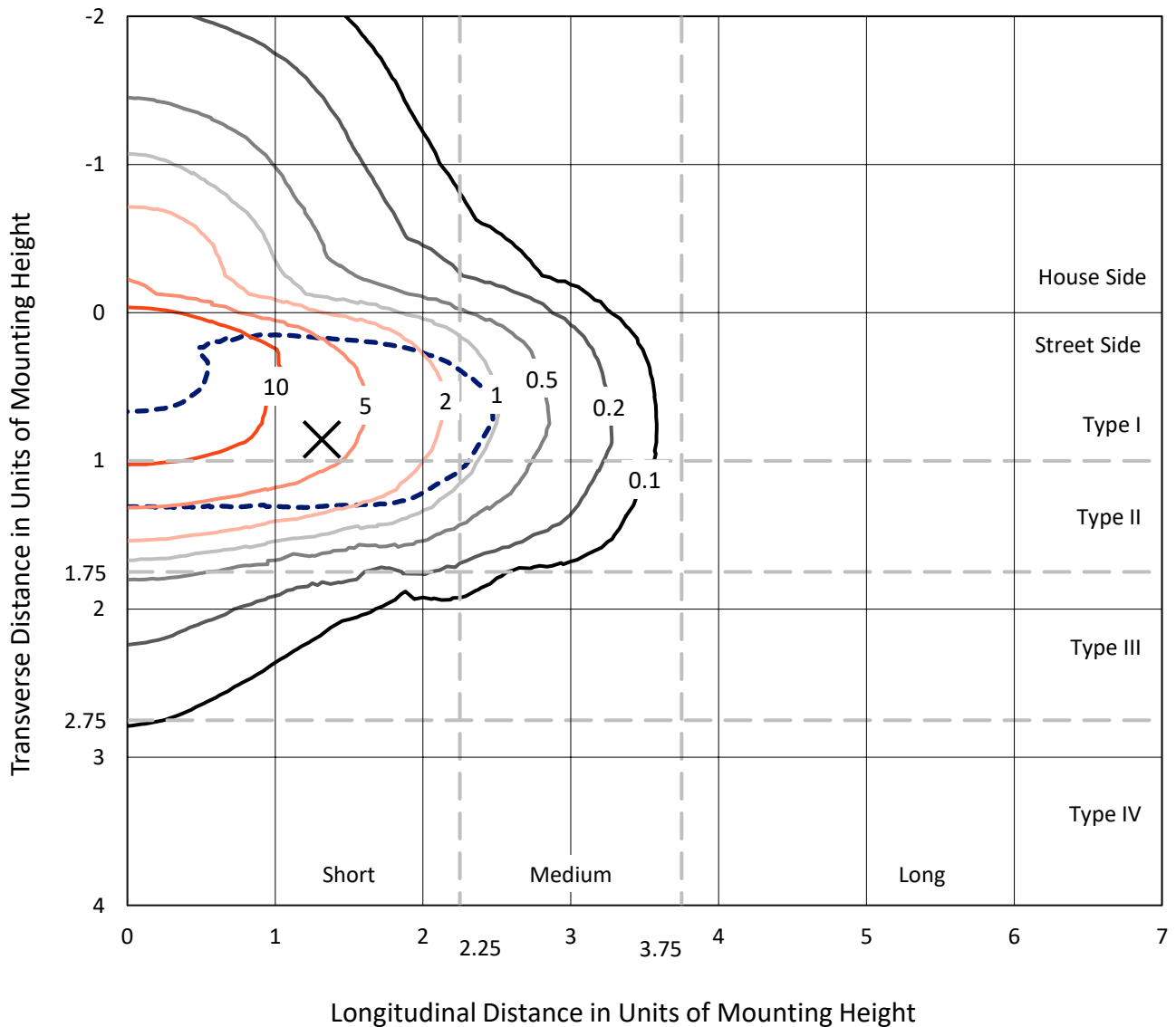
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

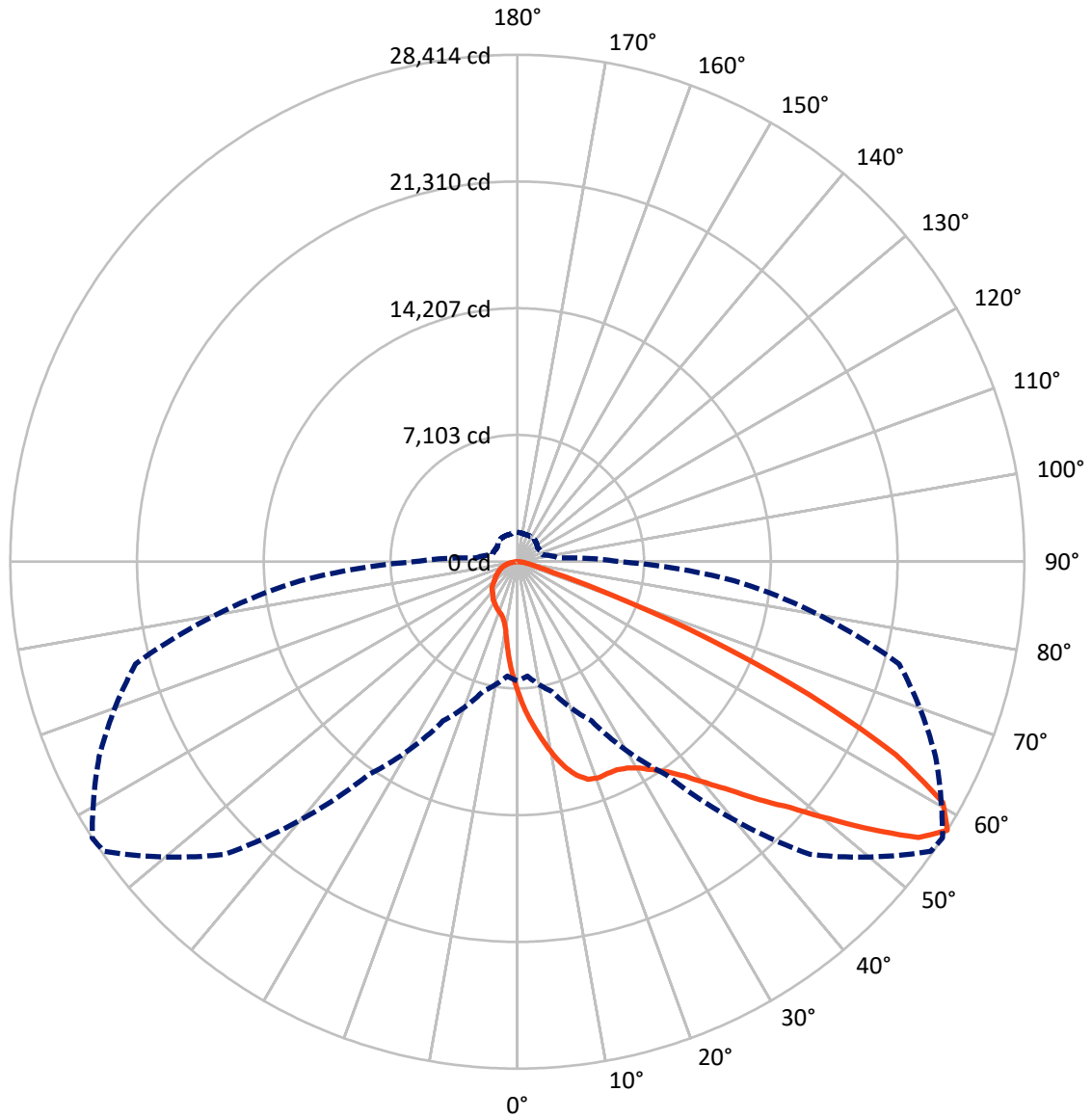
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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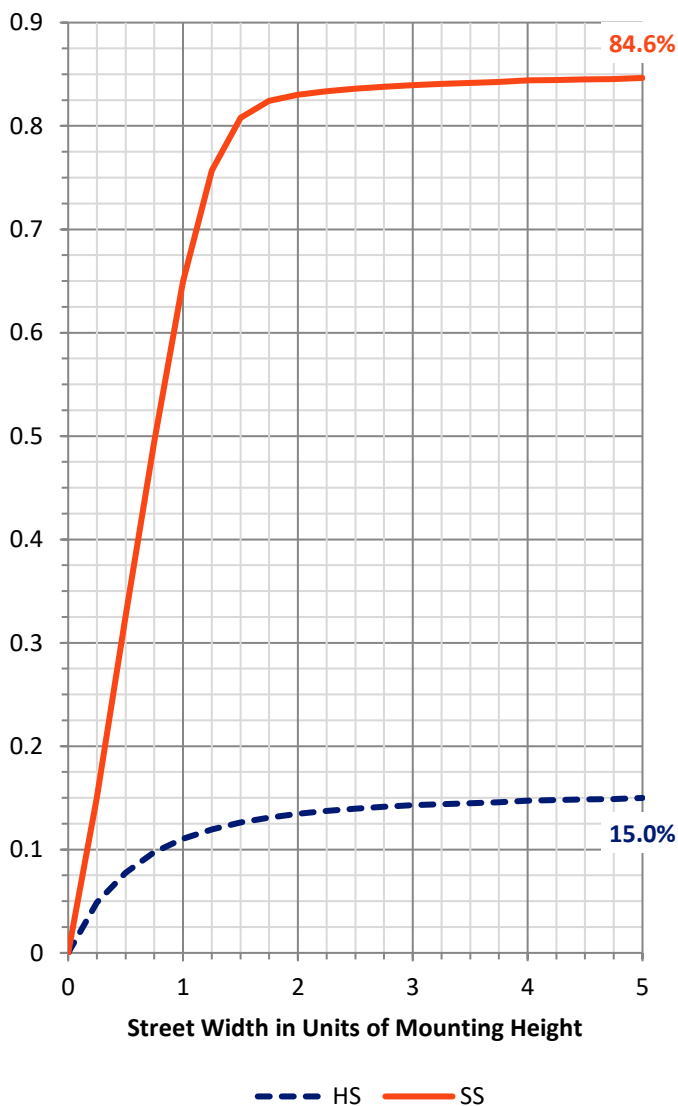
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5324.2	0.0	5324.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	29686.8	0.0	29686.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	35011.0	0.0	35011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.9	2.0
10°-20°	2083.4	6.0
20°-30°	3459.4	9.9
30°-40°	5210.9	14.9
40°-50°	7823.7	22.3
50°-60°	8769.4	25.0
60°-70°	5132.3	14.7
70°-80°	1518.1	4.3
80°-90°	306.8	0.9
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°	35011.0	100.0
0°-180°	35011.0	100.0

Coefficient of Utilization



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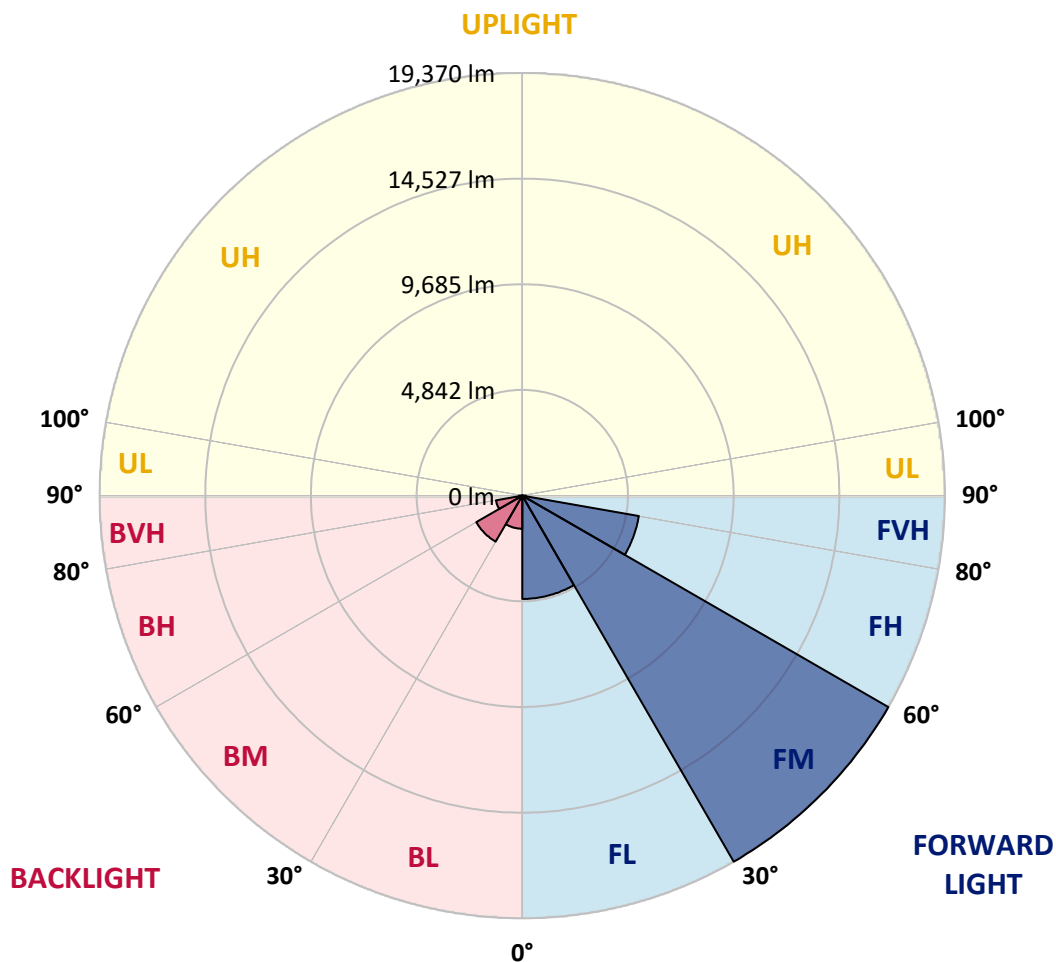
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4732.7	13.5			
FM	(30°-60°)	19369.6	55.3			
FH	(60°-80°)	5425.3	15.5			G3/7500
FVH	(80°-90°)	159.2	0.5			G2/225
BL	(0°-30°)	1517.0	4.3	B3/2500		
BM	(30°-60°)	2434.4	7.0	B2/2500		
BH	(60°-80°)	1225.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	147.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4
2.5°	9139.6	9040.0	8961.4	8892.4	8802.3	8559.0	8315.6	8311.7	8118.2	7819.2	7512.6
5°	10628.7	10494.6	10511.8	10297.2	10082.5	9729.9	9214.4	9187.6	8775.5	8215.9	7646.7
7.5°	11598.5	11600.4	11546.7	11424.1	11192.2	10791.6	10207.1	10074.9	9501.9	8652.9	7800.0
10°	11548.6	11600.4	11690.5	11795.9	11866.8	11669.4	11136.6	10975.6	10230.1	9181.8	7970.6
12.5°	10885.5	10966.0	11094.4	11358.9	11786.3	12112.1	11930.0	11799.7	11073.4	9708.8	8158.4
15°	10471.6	10519.5	10590.4	10768.6	11228.6	12008.6	12480.1	12411.1	11868.7	10304.9	8369.2
17.5°	10345.1	10393.0	10416.0	10525.3	10853.0	11652.1	12696.6	12819.3	12574.0	10853.0	8582.0
20°	10471.6	10494.6	10494.6	10559.7	10816.6	11443.2	12687.0	12934.3	13152.7	11510.3	8781.3
22.5°	10803.1	10812.7	10799.3	10822.3	11014.0	11500.7	12597.0	12903.6	13620.3	12068.0	8936.5
25°	11341.7	11357.0	11268.8	11215.2	11355.1	11753.7	12646.8	12928.5	13986.4	12600.8	9040.0
27.5°	11953.0	11972.2	11864.9	11740.3	11805.5	12066.1	12842.3	13095.2	14260.5	13125.9	9105.1
30°	12702.4	12710.0	12529.9	12380.4	12338.2	12531.8	13175.7	13411.5	14601.6	13744.9	9202.9
32.5°	13468.9	13526.4	13294.5	13083.7	13012.8	13072.2	13668.3	13896.3	15007.9	14409.9	9360.0
35°	14511.5	14521.1	14243.2	13986.4	13752.6	13829.2	14298.8	14463.6	15569.4	15178.4	9582.3
37.5°	15812.8	15900.9	15517.7	15038.5	14751.1	14639.9	15061.5	15241.7	16357.1	16121.3	9917.7
40°	17257.8	17290.4	16962.7	16663.7	16138.6	15816.6	16107.9	16303.4	17328.7	17246.3	10306.8
42.5°	18166.2	18237.1	18262.0	18231.4	17836.6	17296.1	17407.3	17499.3	18478.6	18302.3	10705.4
45°	18472.9	18578.3	18934.7	19689.8	19732.0	19199.2	18940.5	19028.6	19732.0	19367.8	11086.8
47.5°	17965.0	18145.1	18802.5	20351.0	21510.5	21550.7	20770.7	20577.1	20874.2	20251.3	11362.7
50°	16652.2	16690.5	17696.7	19938.9	22344.1	23798.7	22991.9	22631.6	21958.9	20904.9	11552.5
52.5°	14620.7	14664.8	15508.1	18024.4	21830.5	25370.2	25590.6	24946.7	23060.9	21412.7	11677.0
55°	10853.0	11107.9	12035.4	14467.4	19396.6	25222.7	27656.6	27290.5	24392.8	21815.2	11872.5
57.5°	6673.1	6439.3	7539.4	9843.0	14588.2	23195.0	28294.8	28413.6	25858.9	22152.5	12200.2
60°	3070.2	3116.2	3570.4	5076.7	8892.4	18145.1	26650.4	27401.7	26669.6	22141.0	12282.7
62.5°	2115.8	2073.6	1958.6	2228.9	4055.2	11475.8	22510.9	23783.4	25044.4	21453.0	11954.9
65°	1891.6	1849.4	1627.1	1552.3	1862.8	5002.0	16364.7	17970.7	21086.9	19716.6	11138.5
67.5°	1767.0	1709.5	1479.5	1333.9	1330.0	1991.2	9649.4	11583.1	15640.3	16669.5	9651.3
70°	1636.7	1590.7	1362.6	1201.6	1132.6	1251.5	4241.1	5552.0	10155.4	12012.4	7518.3
72.5°	1506.3	1452.7	1247.6	1075.1	985.1	937.2	1625.2	2113.9	5737.9	7202.1	4609.1
75°	1316.6	1289.8	1115.4	973.6	875.8	757.0	1031.1	1176.7	2744.4	3307.8	2313.2
77.5°	1151.8	1123.1	990.8	850.9	780.0	615.2	732.1	799.2	1157.5	1341.5	1044.5
80°	843.2	872.0	835.6	751.3	695.7	483.0	492.5	548.1	688.0	760.8	638.2
82.5°	534.7	588.4	643.9	578.8	527.0	381.4	341.1	362.2	469.5	498.3	283.6
85°	224.2	228.1	373.7	352.6	300.9	226.1	205.1	216.6	251.1	262.6	132.2
87.5°	86.2	84.3	132.2	122.7	93.9	65.2	65.2	72.8	99.7	92.0	42.2
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°	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4	7355.4
2.5°	7380.3	7244.3	6974.0	6638.7	6393.3	6117.4	5874.0	5699.6	5634.4	5603.8	5546.3
5°	7374.6	7106.3	6546.7	5960.2	5488.8	5005.8	4597.6	4333.1	4310.1	4133.8	4116.6
7.5°	7376.5	6966.4	6075.2	5212.8	4494.1	3999.7	3662.4	3574.2	3468.8	3442.0	3455.4
10°	7382.2	6788.1	5569.3	4473.0	3777.4	3453.5	3327.0	3292.5	3296.3	3307.8	3309.7
12.5°	7389.9	6615.7	5044.1	3911.5	3374.9	3240.8	3227.3	3258.0	3290.6	3315.5	3321.2
15°	7399.5	6418.3	4532.5	3459.2	3173.7	3162.2	3206.3	3258.0	3304.0	3340.4	3346.2
17.5°	7388.0	6188.3	4103.2	3181.3	3062.5	3118.1	3190.9	3256.1	3298.2	3332.7	3336.6
20°	7361.2	5931.5	3689.2	2985.9	2993.5	3083.6	3162.2	3223.5	3269.5	3286.7	3300.2
22.5°	7257.7	5624.8	3328.9	2834.5	2911.1	3035.7	3129.6	3166.0	3114.3	3077.9	3087.4
25°	7081.4	5226.2	2993.5	2711.8	2836.4	2968.6	3064.4	2976.3	2934.1	2918.8	2926.4
27.5°	6861.0	4789.3	2740.6	2583.4	2740.6	2893.9	2867.0	2851.7	2832.5	2807.6	2813.4
30°	6623.3	4361.9	2525.9	2483.7	2637.1	2725.2	2736.7	2761.6	2740.6	2702.2	2717.6
32.5°	6402.9	3959.4	2363.0	2399.4	2564.2	2550.8	2637.1	2665.8	2568.1	2439.7	2445.4
35°	6215.1	3585.7	2240.4	2317.0	2439.7	2445.4	2531.7	2432.0	2326.6	2265.3	2269.1
37.5°	6073.3	3294.4	2159.9	2246.1	2280.6	2353.4	2307.4	2255.7	2242.3	2200.1	2202.0
40°	5989.0	3039.5	2108.1	2190.5	2184.8	2234.6	2087.0	2138.8	2157.9	2144.5	2146.4
42.5°	5904.6	2859.4	2054.5	2113.9	2111.9	2014.2	1981.6	2025.7	2075.5	2081.3	2077.5
45°	5837.6	2719.5	1998.9	1997.0	2035.3	1882.0	1872.4	1899.2	1970.1	2004.6	2002.7
47.5°	5762.8	2602.6	1914.6	1860.9	1872.4	1799.6	1784.2	1795.7	1882.0	1937.6	1952.9
50°	5668.9	2485.7	1809.1	1736.3	1688.4	1722.9	1726.7	1728.7	1814.9	1878.1	1891.6
52.5°	5594.2	2397.5	1688.4	1634.7	1577.3	1653.9	1682.7	1686.5	1738.2	1790.0	1799.6
55°	5638.3	2347.7	1569.6	1531.3	1479.5	1583.0	1638.6	1646.2	1657.7	1696.1	1701.8
57.5°	5770.5	2359.2	1473.8	1423.9	1385.6	1498.7	1592.6	1598.3	1590.7	1636.7	1644.3
60°	5810.7	2353.4	1402.9	1305.1	1282.1	1408.6	1525.5	1537.0	1535.1	1602.2	1615.6
62.5°	5642.1	2280.6	1331.9	1205.5	1190.1	1316.6	1431.6	1477.6	1487.2	1583.0	1600.3
65°	5245.4	2131.1	1238.0	1100.1	1100.1	1218.9	1341.5	1404.8	1431.6	1560.0	1579.2
67.5°	4722.2	1954.8	1142.2	1010.0	1006.1	1125.0	1245.7	1310.9	1353.0	1527.4	1538.9
70°	3919.2	1717.2	1023.4	912.2	912.2	1019.6	1128.8	1207.4	1268.7	1466.1	1466.1
72.5°	2685.0	1427.8	879.7	801.1	803.0	902.7	1013.8	1102.0	1174.8	1343.4	1347.3
75°	1698.0	1115.4	722.5	682.3	689.9	783.8	898.8	990.8	1136.5	1328.1	1333.9
77.5°	902.7	783.8	574.9	565.4	574.9	661.2	789.6	916.1	1140.3	1151.8	1132.6
80°	584.5	555.8	454.2	435.0	438.9	532.8	703.3	870.1	916.1	927.6	885.4
82.5°	318.1	352.6	322.0	302.8	302.8	415.9	599.9	691.8	657.3	546.2	521.3
85°	136.1	164.8	166.7	145.7	139.9	256.8	402.5	377.5	350.7	335.4	331.5
87.5°	38.3	53.7	53.7	40.2	30.7	70.9	80.5	23.0	0.0	1.9	3.8
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)