

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: P529118

Luminaire Tested: **GALN-SA4B-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17343 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

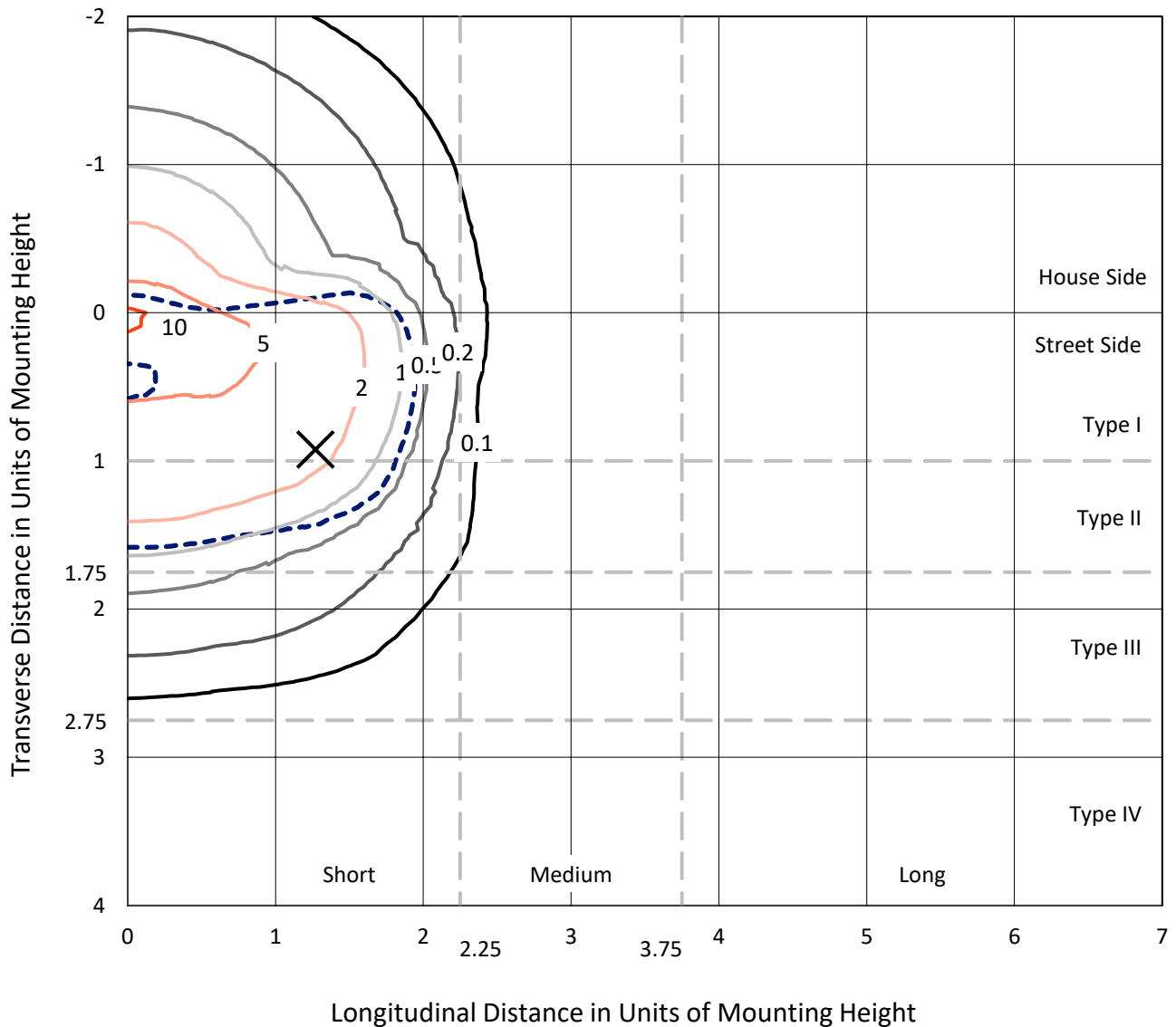
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

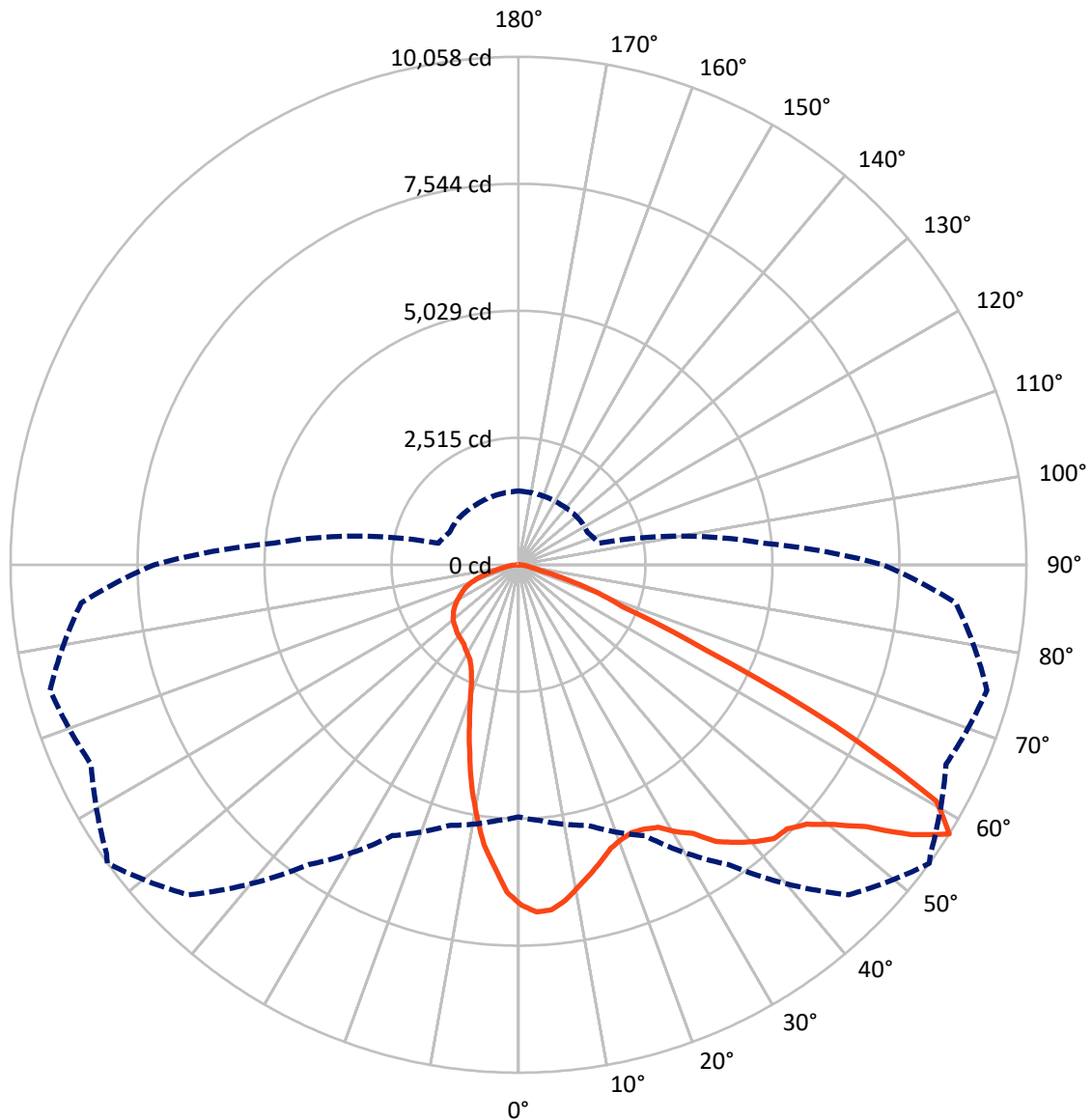
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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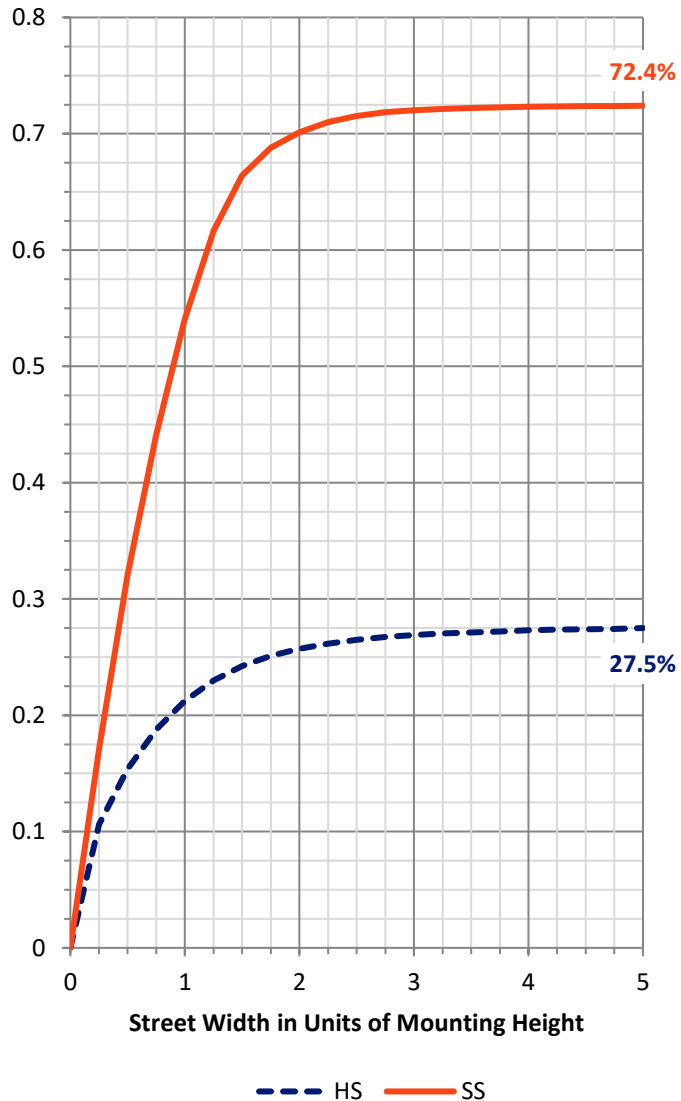
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4798.0	0.0	4798.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	12545.0	0.0	12545.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	17343.0	0.0	17343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.3	3.4
10°-20°	1346.0	7.8
20°-30°	1891.2	10.9
30°-40°	2643.9	15.2
40°-50°	3579.3	20.6
50°-60°	4359.8	25.1
60°-70°	2270.8	13.1
70°-80°	581.9	3.4
80°-90°	88.8	0.5
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°	17343.0	100.0
0°-180°	17343.0	100.0

Coefficient of Utilization

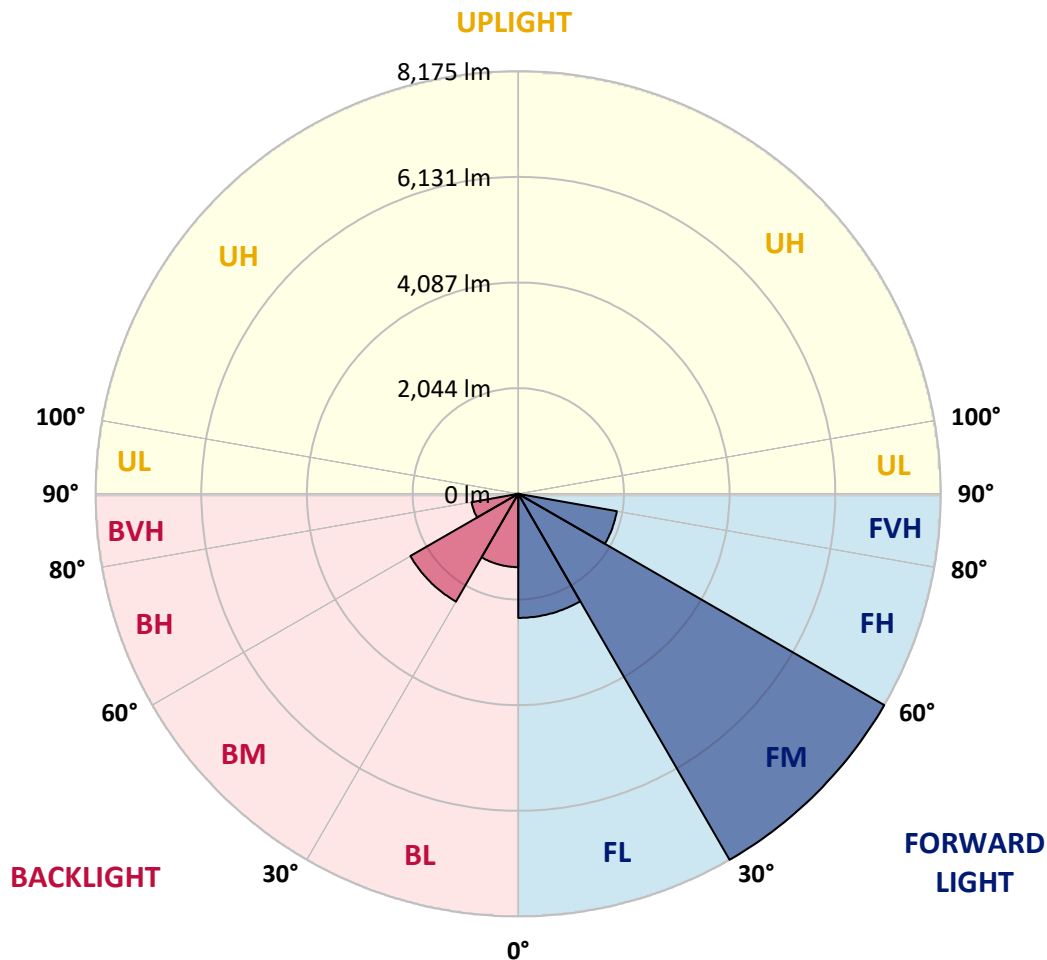


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2400.5	13.8			
FM (30°-60°)	8175.0	47.1			
FH (60°-80°)	1936.0	11.2			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	1418.1	8.2	B3/2500		
BM (30°-60°)	2408.1	13.9	B2/2500		
BH (60°-80°)	916.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	55.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0
2.5°	6932.7	6906.0	6910.4	6946.1	6901.5	6883.7	6883.7	6796.8	6803.4	6743.3	6727.7
5°	6772.2	6709.8	6752.2	6805.7	6814.6	6832.4	6861.4	6839.1	6776.7	6712.0	6607.3
7.5°	6353.1	6408.9	6424.5	6462.4	6542.6	6616.2	6707.6	6645.2	6642.9	6578.3	6515.9
10°	5985.3	5951.9	6036.6	6092.3	6226.1	6348.7	6489.1	6482.4	6515.9	6442.3	6335.3
12.5°	5619.8	5593.0	5633.1	5760.2	5947.4	6125.8	6293.0	6230.5	6408.9	6395.5	6165.9
15°	5231.9	5251.9	5309.9	5428.0	5673.3	5887.3	6099.0	6101.3	6259.5	6313.0	6005.4
17.5°	4959.9	4937.6	5011.2	5187.3	5405.7	5662.1	5902.9	5951.9	6194.9	6226.1	5956.4
20°	4757.1	4788.3	4884.1	4973.3	5225.2	5535.0	5807.0	5824.8	6181.5	6266.2	5878.3
22.5°	4708.0	4690.2	4721.4	4866.3	5073.6	5410.2	5755.7	5822.6	6179.3	6252.8	5731.2
25°	4656.7	4714.7	4712.5	4857.4	5009.0	5309.9	5798.1	5871.6	6297.4	6321.9	5751.3
27.5°	4772.7	4766.0	4828.4	4839.5	5026.8	5336.6	5887.3	5943.0	6493.6	6473.5	5766.9
30°	4888.6	4855.1	4893.0	5024.6	5111.5	5490.5	6132.5	6128.0	6747.7	6734.3	5815.9
32.5°	5031.2	5015.6	5040.2	5156.1	5303.2	5695.5	6339.8	6471.3	7006.3	7091.0	5985.3
35°	5058.0	5122.6	5180.6	5336.6	5546.2	6027.7	6729.9	6839.1	7305.0	7570.3	6308.6
37.5°	5227.4	5251.9	5387.9	5664.3	5856.0	6471.3	6977.3	7046.4	7577.0	7877.9	6649.6
40°	5408.0	5437.0	5642.0	5931.8	6194.9	6761.1	7209.2	7231.4	7663.9	8114.2	6872.5
42.5°	5653.2	5679.9	5882.8	6246.1	6598.4	7008.5	7414.2	7438.8	7657.2	8386.2	7227.0
45°	5907.3	5972.0	6210.5	6622.9	6939.4	7298.3	7461.0	7561.4	7719.6	8629.1	7514.5
47.5°	6264.0	6324.2	6520.3	6923.8	7293.9	7552.4	7677.3	7775.4	7869.0	8840.9	7699.6
50°	6642.9	6654.1	6892.6	7258.2	7530.2	7840.0	8080.8	8114.2	8065.2	9086.1	8013.9
52.5°	6921.6	6957.3	7142.3	7498.9	7904.7	8285.8	8615.8	8651.4	8555.6	9177.5	8120.9
55°	6460.1	6440.1	6741.0	7215.8	8156.6	8950.1	9429.4	9456.2	8912.2	9460.6	8470.9
57.5°	4993.4	5089.2	5345.6	5918.5	7247.0	9244.4	10058.0	9962.2	9340.2	9603.3	8693.8
60°	3629.1	3606.8	3778.5	4161.9	5461.5	7967.1	9509.7	9607.7	8990.3	8655.9	7169.0
62.5°	2955.9	2924.7	2938.1	2951.4	3524.3	5287.6	7039.7	7037.5	6923.8	6221.6	4835.1
65°	2362.9	2436.5	2443.2	2543.5	2617.1	3158.7	4079.4	4297.8	3742.8	3069.6	2226.9
67.5°	1781.1	1754.4	1843.5	2200.2	2338.4	2280.4	2226.9	2251.5	1600.5	1154.7	1087.8
70°	1049.9	1038.8	1145.8	1533.7	1926.0	1812.3	1678.6	1680.8	1099.0	807.0	898.4
72.5°	575.1	572.9	595.2	778.0	1094.5	1136.9	1007.6	1038.8	655.4	653.1	702.2
75°	321.0	314.3	307.6	343.3	394.6	416.9	425.8	430.2	450.3	503.8	523.9
77.5°	118.1	113.7	113.7	131.5	167.2	209.5	265.3	269.7	318.8	365.6	385.6
80°	40.1	44.6	60.2	82.5	111.5	149.4	180.6	185.0	225.1	256.4	263.0
82.5°	24.5	26.8	40.1	58.0	80.3	104.8	133.8	136.0	167.2	187.3	196.2
85°	11.1	13.4	22.3	35.7	51.3	69.1	71.3	71.3	69.1	71.3	66.9
87.5°	0.0	0.0	4.5	4.5	4.5	6.7	8.9	6.7	11.1	13.4	13.4
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°	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0	6741.0
2.5°	6680.8	6656.3	6580.5	6513.6	6493.6	6404.4	6272.9	6288.5	6192.6	6237.2	6190.4
5°	6589.4	6507.0	6313.0	6230.5	6014.3	5916.2	5849.4	5682.2	5604.1	5588.5	5521.7
7.5°	6355.4	6304.1	6061.1	5838.2	5608.6	5412.4	5160.5	4988.9	4866.3	4832.9	4734.8
10°	6170.4	6056.7	5720.1	5381.2	5053.5	4712.5	4384.8	4128.4	4003.6	3858.7	3809.7
12.5°	5987.6	5815.9	5361.2	4926.5	4502.9	4072.7	3675.9	3363.8	3091.9	3027.2	3004.9
15°	5873.9	5575.2	5040.2	4516.3	3914.4	3352.7	2955.9	2750.8	2583.6	2514.5	2563.6
17.5°	5724.5	5376.8	4732.5	4034.8	3372.7	2855.6	2523.4	2396.4	2336.2	2342.9	2322.8
20°	5537.3	5189.5	4329.1	3597.9	2889.0	2476.6	2287.1	2240.3	2249.2	2264.8	2258.2
22.5°	5403.5	4962.1	4037.0	3152.1	2496.7	2267.1	2189.0	2155.6	2184.6	2198.0	2186.8
25°	5301.0	4768.2	3682.6	2757.5	2269.3	2148.9	2113.3	2111.0	2155.6	2173.4	2162.3
27.5°	5207.4	4587.6	3330.4	2456.6	2117.7	2057.5	2046.4	2073.1	2102.1	2119.9	2135.5
30°	5151.6	4449.4	3000.5	2204.7	2041.9	2012.9	1992.9	2017.4	2033.0	2050.8	2041.9
32.5°	5205.1	4351.3	2681.7	2062.0	1979.5	1950.5	1977.3	1961.7	1988.4	2004.0	1979.5
35°	5372.3	4264.4	2454.3	1986.2	1908.2	1919.3	1923.8	1917.1	1928.2	1914.9	1943.8
37.5°	5537.3	4233.2	2244.8	1921.5	1874.7	1874.7	1870.3	1856.9	1879.2	1874.7	1888.1
40°	5746.8	4253.3	2066.4	1852.4	1843.5	1839.1	1821.2	1819.0	1810.1	1812.3	1816.8
42.5°	5929.6	4297.8	1963.9	1807.9	1814.5	1823.5	1790.0	1763.3	1774.4	1752.1	1752.1
45°	6123.5	4338.0	1872.5	1776.7	1770.0	1767.7	1741.0	1725.4	1716.5	1718.7	1738.8
47.5°	6428.9	4395.9	1803.4	1734.3	1738.8	1705.3	1698.6	1678.6	1687.5	1700.9	1703.1
50°	6645.2	4518.5	1749.9	1685.3	1700.9	1678.6	1638.4	1629.5	1629.5	1651.8	1647.4
52.5°	6796.8	4690.2	1698.6	1631.8	1638.4	1620.6	1607.2	1587.2	1573.8	1605.0	1620.6
55°	7260.4	4975.5	1685.3	1587.2	1584.9	1567.1	1542.6	1522.5	1515.8	1520.3	1551.5
57.5°	7215.8	4886.4	1642.9	1509.2	1504.7	1480.2	1455.7	1449.0	1446.7	1451.2	1460.1
60°	5858.3	3609.0	1466.8	1420.0	1413.3	1408.8	1384.3	1357.6	1344.2	1357.6	1346.4
62.5°	3876.5	2416.4	1292.9	1313.0	1317.4	1306.3	1266.2	1239.4	1243.9	1259.5	1235.0
65°	1903.7	1420.0	1172.5	1226.0	1230.5	1199.3	1161.4	1130.2	1114.6	1128.0	1116.8
67.5°	1087.8	1085.6	1074.5	1130.2	1128.0	1096.8	1036.6	1009.8	983.1	987.5	980.8
70°	922.9	940.7	963.0	996.4	994.2	958.5	887.2	867.1	829.3	824.8	813.6
72.5°	726.7	757.9	807.0	831.5	811.4	766.8	720.0	686.6	653.1	633.1	639.8
75°	539.5	584.0	610.8	626.4	595.2	570.7	532.8	492.6	452.5	434.7	428.0
77.5°	392.3	405.7	430.2	441.4	421.3	396.8	374.5	334.4	296.5	272.0	265.3
80°	274.2	283.1	300.9	300.9	300.9	289.8	260.8	220.7	196.2	173.9	169.4
82.5°	191.7	200.6	218.5	209.5	207.3	193.9	176.1	144.9	118.1	102.5	98.1
85°	66.9	73.6	89.2	107.0	113.7	111.5	100.3	80.3	62.4	51.3	46.8
87.5°	15.6	15.6	17.8	15.6	15.6	17.8	15.6	15.6	15.6	11.1	8.9
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)