

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: P651883

Luminaire Tested: **GALN-SA5A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17379.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

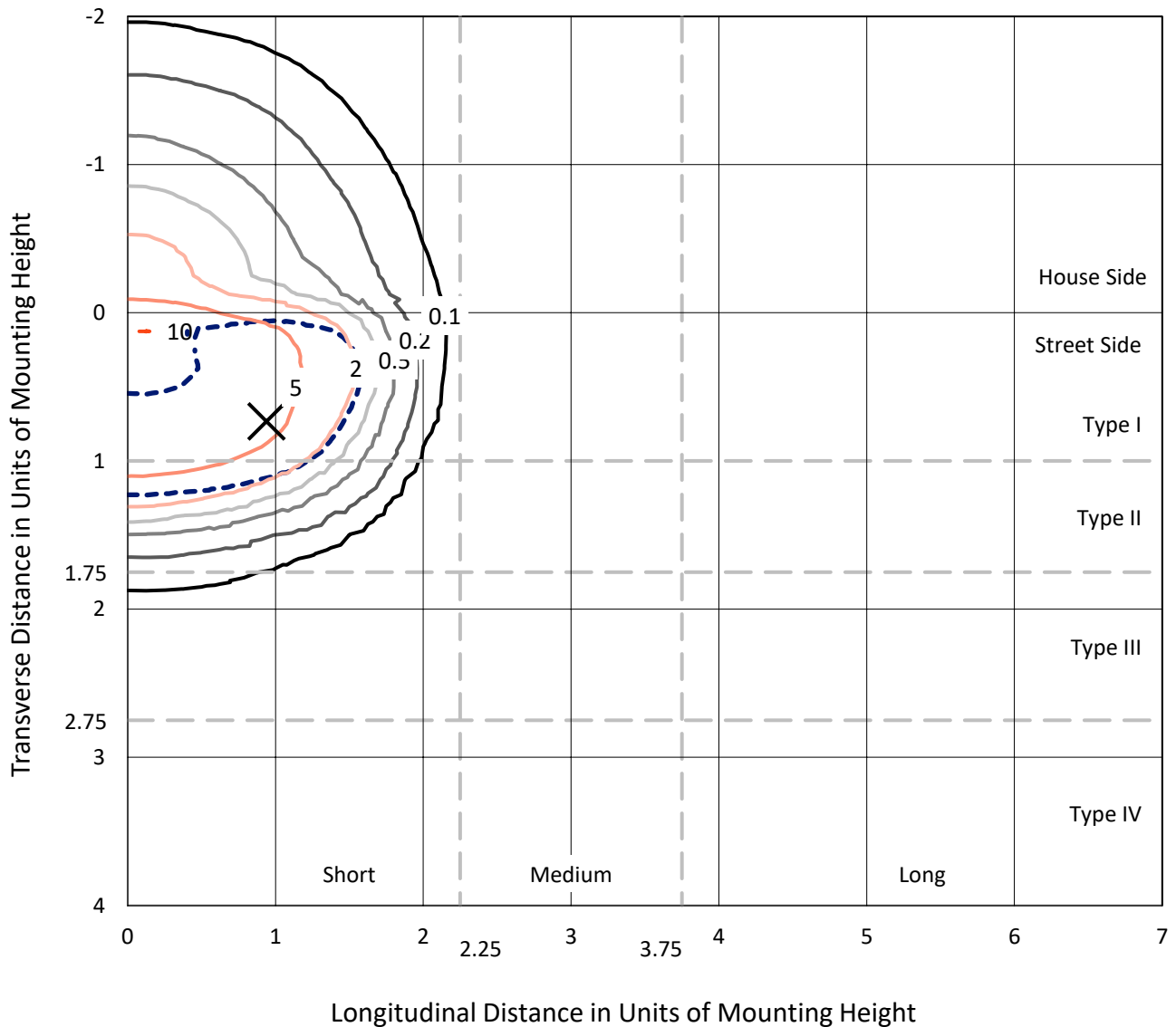
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

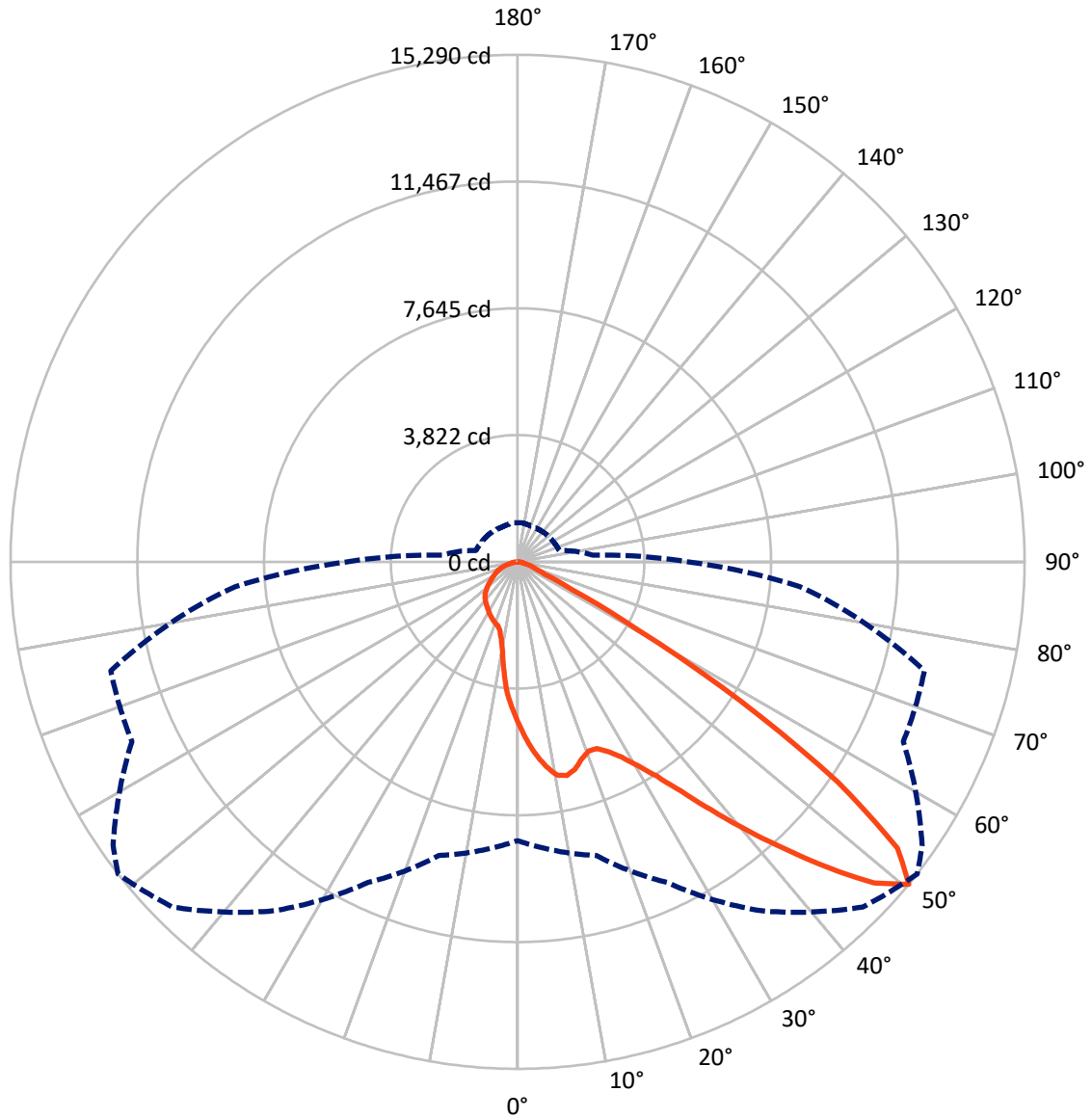
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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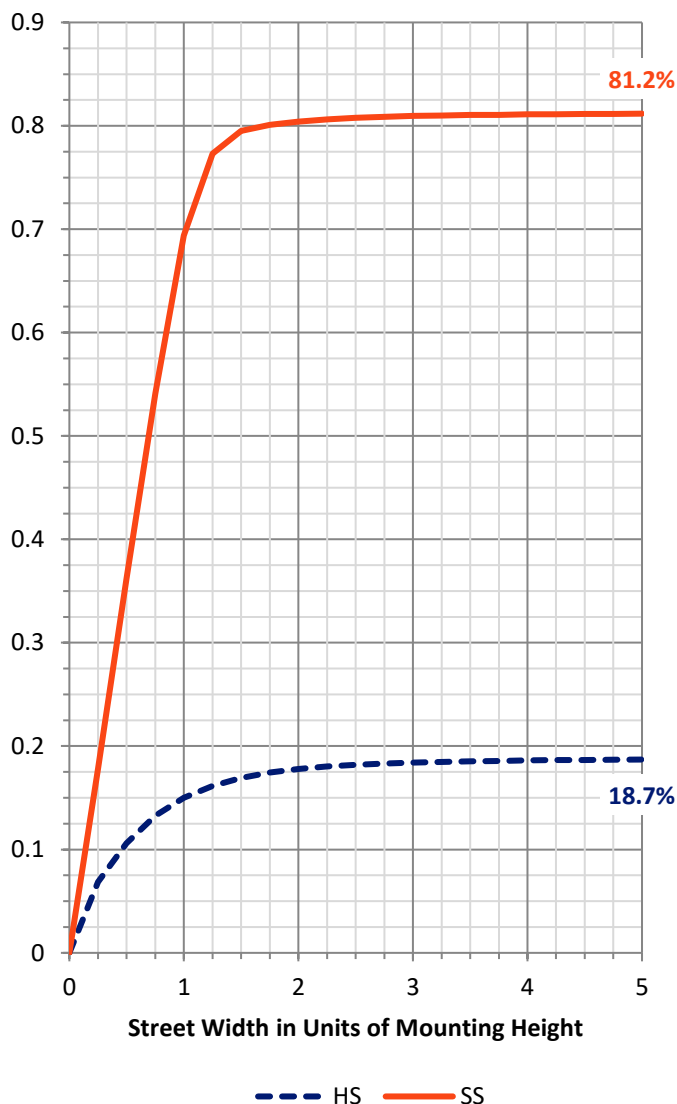
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3266.9	0.0	3266.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14112.4	0.0	14112.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	17379.3	0.0	17379.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	2.6
10°-20°	1210.2	7.0
20°-30°	2038.6	11.7
30°-40°	3420.9	19.7
40°-50°	5233.1	30.1
50°-60°	3815.4	22.0
60°-70°	849.1	4.9
70°-80°	306.3	1.8
80°-90°	54.2	0.3
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°	17379.3	100.0
0°-180°	17379.3	100.0

Coefficient of Utilization

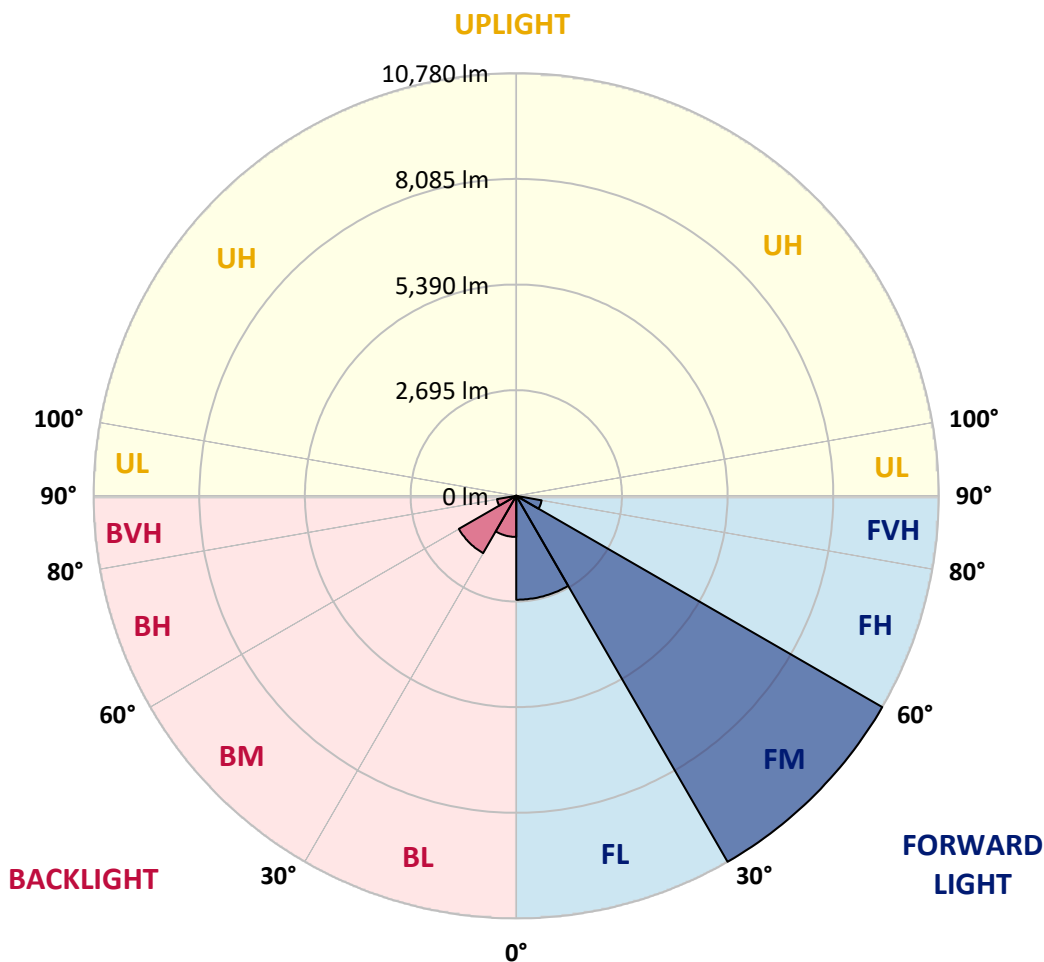


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2650.9	15.3			
FM (30°-60°)	10779.5	62.0			
FH (60°-80°)	657.7	3.8			G0/660
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	1049.4	6.0	B3/2500		
BM (30°-60°)	1689.9	9.7	B2/2500		
BH (60°-80°)	497.7	2.9	B1/500		G1/500
BVH (80°-90°)	29.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9
2.5°	5768.2	5657.2	5669.7	5590.1	5504.3	5479.1	5391.1	5307.4	5244.5	5110.5	4986.9
5°	6304.3	6270.8	6220.5	6157.7	6092.8	5933.6	5843.5	5738.8	5508.4	5301.1	5095.8
7.5°	6381.8	6375.5	6402.8	6402.8	6425.7	6365.0	6237.3	6163.9	5919.0	5581.7	5200.5
10°	5837.2	5856.1	5988.0	6159.8	6398.6	6564.0	6543.1	6524.2	6256.1	5795.3	5324.1
12.5°	5403.7	5361.8	5439.3	5585.9	5944.0	6344.1	6614.3	6616.4	6547.3	6136.8	5414.2
15°	5158.6	5188.0	5208.9	5278.0	5548.2	6011.0	6486.5	6626.8	6930.5	6377.6	5556.6
17.5°	5315.7	5217.3	5213.1	5229.8	5368.1	5715.8	6249.8	6490.7	7140.0	6687.6	5732.5
20°	5521.0	5518.9	5460.3	5439.3	5437.2	5747.1	6094.9	6421.6	7251.0	7089.7	5910.5
22.5°	5881.2	5881.2	5784.9	5738.8	5640.3	5893.8	6115.8	6337.8	7435.3	7366.2	5996.4
25°	6484.4	6386.0	6220.5	6107.4	6050.9	6140.9	6337.8	6536.8	7596.6	7659.4	6174.5
27.5°	7041.5	6886.5	6804.9	6610.1	6534.7	6482.3	6662.5	6863.5	7785.1	8116.0	6270.8
30°	7674.0	7646.9	7500.2	7248.9	7062.5	6966.2	7131.6	7330.6	8130.7	8583.1	6492.8
32.5°	8805.1	8557.9	8359.0	8051.1	7747.4	7542.1	7705.5	7837.4	8704.5	9071.1	6735.7
35°	10026.1	9946.6	9603.0	9048.1	8583.1	8398.7	8495.1	8593.5	9372.7	9816.7	7144.2
37.5°	11226.3	11117.3	10834.6	10367.5	9802.0	9427.1	9496.2	9611.5	10122.5	10822.1	7642.7
40°	12089.2	11955.2	11812.7	11743.6	11182.3	10669.2	10629.3	10658.7	11136.2	11764.6	8195.6
42.5°	12152.0	12317.5	12361.4	12640.1	12508.1	12087.1	11842.0	11848.3	12103.8	12696.6	8754.8
45°	12020.1	11867.2	12191.8	12952.1	13387.7	13584.6	13172.0	13119.7	12702.9	13236.9	9033.3
47.5°	10635.6	10677.5	11226.3	12428.5	13687.3	14567.0	14470.6	14296.7	13023.3	13218.1	8989.4
50°	8407.1	8660.5	9169.5	10667.1	12849.5	14721.9	15289.5	14887.4	12832.7	12698.7	8541.2
52.5°	5598.5	5703.2	6038.3	7971.5	10331.9	13159.5	14347.0	14439.1	12656.8	12018.0	7973.6
55°	2492.4	2484.1	2955.3	4163.8	6482.3	10013.6	11722.6	12284.0	11980.3	11324.7	7420.6
57.5°	1055.6	1091.2	1283.9	1799.2	3187.7	6042.5	7942.2	8434.4	9213.5	9299.4	5692.7
60°	714.2	718.4	770.8	900.6	1334.2	2838.0	4165.9	4756.5	5313.6	5275.9	3020.2
62.5°	561.3	576.0	615.8	668.1	791.7	1288.1	1864.1	2192.9	2228.5	1874.5	1145.7
65°	479.6	481.7	521.5	565.5	620.0	749.8	898.5	915.3	925.8	892.2	842.0
67.5°	395.9	400.1	431.4	481.7	532.0	573.9	615.8	636.7	684.9	779.1	766.6
70°	314.2	320.4	347.7	389.6	435.6	460.8	513.2	532.0	576.0	649.3	678.6
72.5°	238.8	240.9	263.9	293.3	335.1	360.3	404.3	425.2	454.5	517.3	544.5
75°	171.7	178.0	194.8	209.4	215.7	232.5	274.3	297.4	339.3	366.5	368.6
77.5°	90.1	94.3	98.5	98.5	119.4	150.8	178.0	190.6	219.9	240.9	230.3
80°	35.6	37.7	48.2	64.9	83.8	108.9	127.7	134.1	159.2	171.7	178.0
82.5°	20.9	23.0	31.5	46.1	60.7	77.5	92.2	98.5	115.2	129.9	134.1
85°	10.5	12.5	18.8	29.4	39.8	48.2	46.1	44.0	44.0	41.9	44.0
87.5°	4.2	4.2	6.3	6.3	6.3	8.4	10.5	10.5	10.5	12.5	12.5
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°	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9	4898.9
2.5°	4905.2	4821.5	4743.9	4601.5	4446.5	4402.6	4222.4	4157.5	4111.4	4057.0	4040.2
5°	4930.4	4819.4	4570.1	4283.1	4054.9	3761.6	3569.0	3361.6	3210.8	3173.1	3162.7
7.5°	4982.7	4792.1	4362.8	3929.2	3462.1	3064.2	2760.5	2597.1	2452.6	2444.2	2429.6
10°	5041.4	4710.4	4136.5	3455.8	2858.9	2490.3	2308.1	2236.9	2201.2	2192.9	2188.7
12.5°	5089.6	4693.7	3883.1	2995.1	2431.7	2209.6	2155.2	2148.9	2163.6	2167.8	2176.2
15°	5110.5	4626.7	3577.4	2582.5	2165.7	2084.0	2107.0	2132.2	2142.6	2169.9	2148.9
17.5°	5150.3	4540.8	3200.3	2255.7	2017.0	2031.6	2071.4	2100.7	2117.5	2136.3	2109.1
20°	5171.2	4463.3	2846.4	2061.0	1964.6	1991.8	2046.3	2069.3	2090.3	2098.6	2067.3
22.5°	5152.4	4304.1	2534.3	1903.9	1914.4	1949.9	1998.1	2023.3	2010.7	1977.2	1958.4
25°	5102.1	4080.0	2209.6	1803.4	1843.1	1906.0	1943.6	1924.8	1901.8	1882.9	1876.6
27.5°	5100.0	3805.6	1975.1	1711.2	1782.4	1868.3	1855.7	1838.9	1849.4	1834.7	1818.0
30°	5110.5	3539.6	1782.4	1658.8	1738.4	1780.3	1794.9	1778.2	1790.7	1763.5	1771.9
32.5°	5056.0	3279.9	1656.7	1598.1	1686.0	1683.9	1732.1	1744.7	1715.4	1658.8	1667.2
35°	5079.1	3070.5	1549.9	1570.8	1627.4	1627.4	1665.1	1650.5	1572.9	1539.5	1547.8
37.5°	5238.3	2865.2	1497.6	1533.1	1570.8	1587.6	1575.0	1512.2	1493.4	1493.4	1497.6
40°	5389.0	2689.3	1466.1	1524.7	1518.5	1528.9	1436.8	1443.1	1443.1	1445.2	1434.7
42.5°	5523.1	2569.9	1441.0	1474.5	1485.0	1430.5	1373.9	1367.7	1382.4	1380.2	1371.8
45°	5571.2	2471.4	1405.4	1417.9	1426.3	1336.3	1309.0	1296.5	1313.2	1319.5	1327.9
47.5°	5386.9	2389.8	1365.6	1340.5	1323.7	1265.0	1229.5	1206.4	1227.4	1262.9	1271.3
50°	5150.3	2283.0	1302.7	1254.6	1218.9	1193.8	1168.7	1145.7	1160.3	1185.5	1179.2
52.5°	4800.5	2115.4	1223.2	1172.9	1112.1	1118.4	1095.4	1082.9	1091.2	1091.2	1084.9
55°	4302.0	1738.4	1089.1	1053.5	1003.2	1020.0	1024.2	1007.4	990.7	1005.3	992.8
57.5°	2936.4	1227.4	971.9	971.9	921.6	944.6	942.5	902.7	863.0	867.1	858.7
60°	1698.6	978.1	896.4	888.0	835.7	854.5	858.7	831.5	770.8	775.0	766.6
62.5°	965.6	835.7	783.3	770.8	760.3	777.1	777.1	741.4	689.1	693.2	684.9
65°	821.0	775.0	699.5	697.4	693.2	697.4	680.7	643.0	596.9	578.1	580.1
67.5°	745.6	716.3	643.0	624.1	611.6	609.5	578.1	542.4	521.5	504.8	502.7
70°	653.5	630.4	576.0	550.9	538.2	509.0	477.5	454.5	425.2	416.8	425.2
72.5°	517.3	515.2	494.3	467.1	439.8	416.8	389.6	358.2	330.9	324.6	310.0
75°	358.2	362.3	366.5	362.3	339.3	310.0	278.5	253.4	219.9	201.1	196.9
77.5°	234.6	240.9	247.2	238.8	224.1	196.9	175.9	144.5	119.4	104.7	102.6
80°	171.7	180.1	184.3	178.0	161.3	140.4	117.3	92.2	73.3	60.7	60.7
82.5°	132.0	140.4	144.5	134.1	117.3	100.5	83.8	64.9	50.3	39.8	37.7
85°	46.1	44.0	52.4	54.5	64.9	60.7	50.3	37.7	29.4	20.9	18.8
87.5°	12.5	12.5	14.6	14.6	12.5	10.5	10.5	10.5	8.4	6.3	6.3
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)