

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: P457792

Luminaire Tested: **GALN-SA9A-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457792
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33267 lumens
Efficiency: N/A
Efficacy: 121.4 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 (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

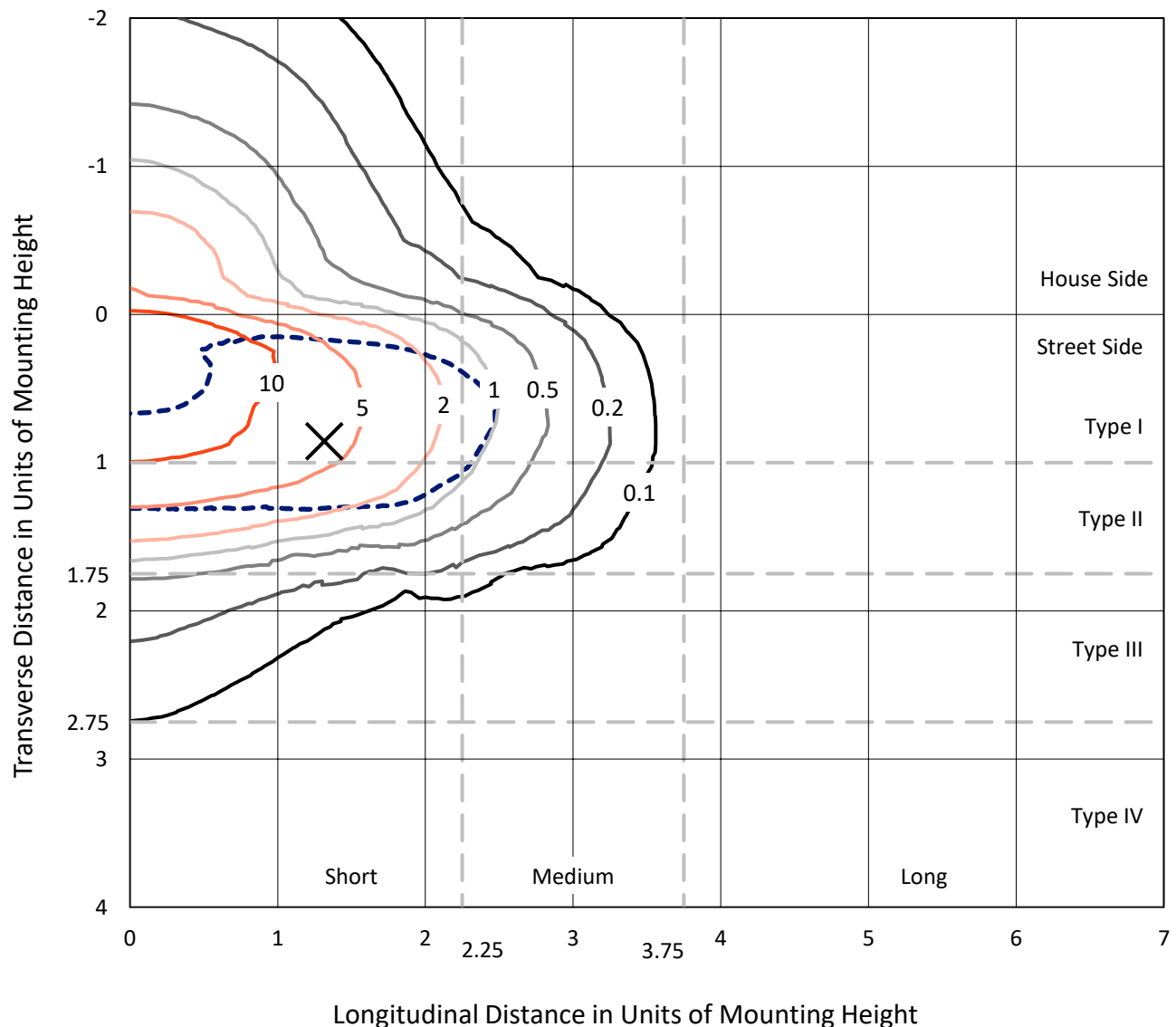


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

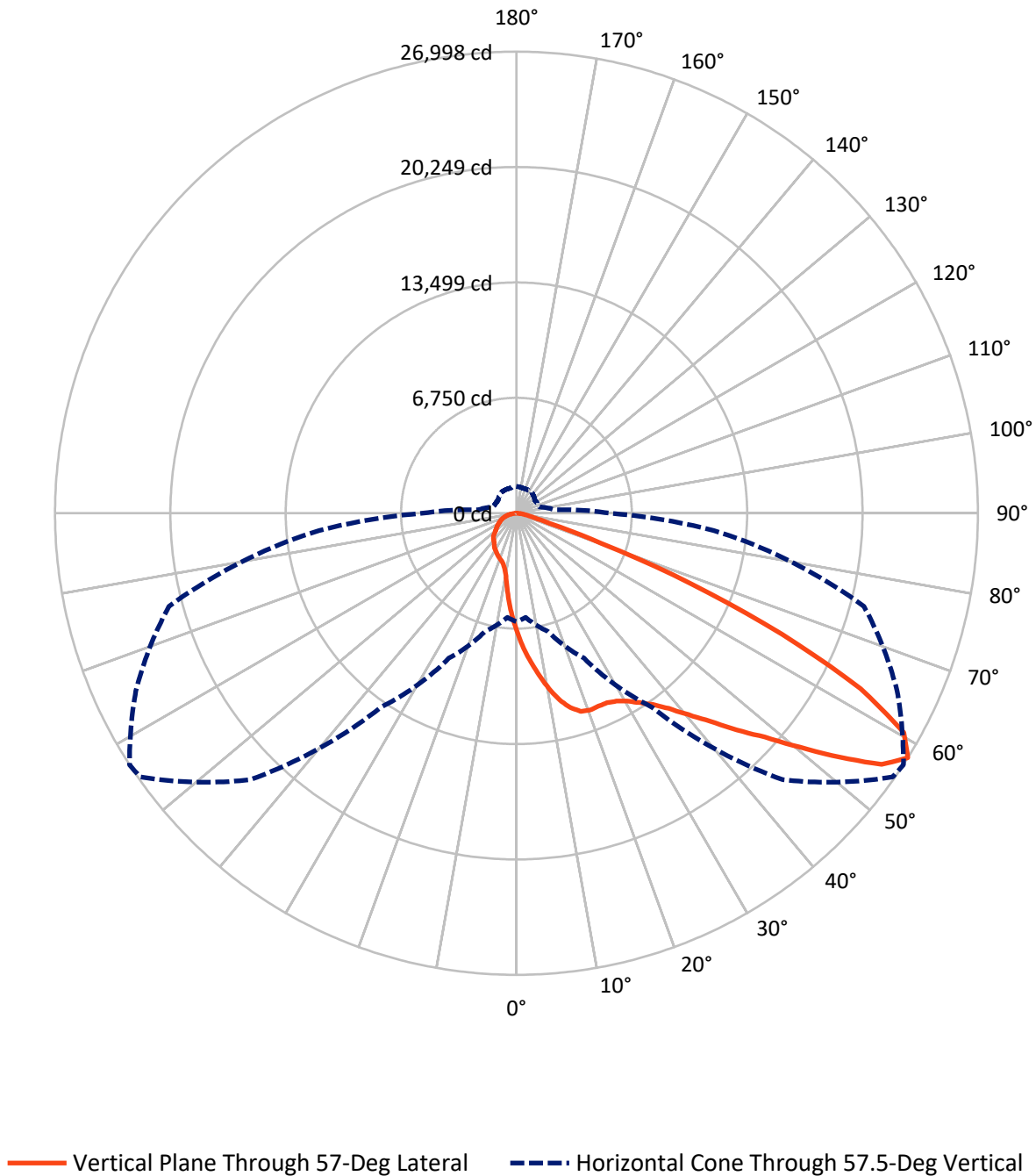


Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5059.0	0.0	5059.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	28208.0	0.0	28208.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	33267.0	0.0	33267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.7	2.0
10°-20°	1979.6	6.0
20°-30°	3287.1	9.9
30°-40°	4951.4	14.9
40°-50°	7434.0	22.3
50°-60°	8332.6	25.0
60°-70°	4876.6	14.7
70°-80°	1442.5	4.3
80°-90°	291.6	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°	33267.0	100.0
0°-180°	33267.0	100.0

Coefficient of Utilization



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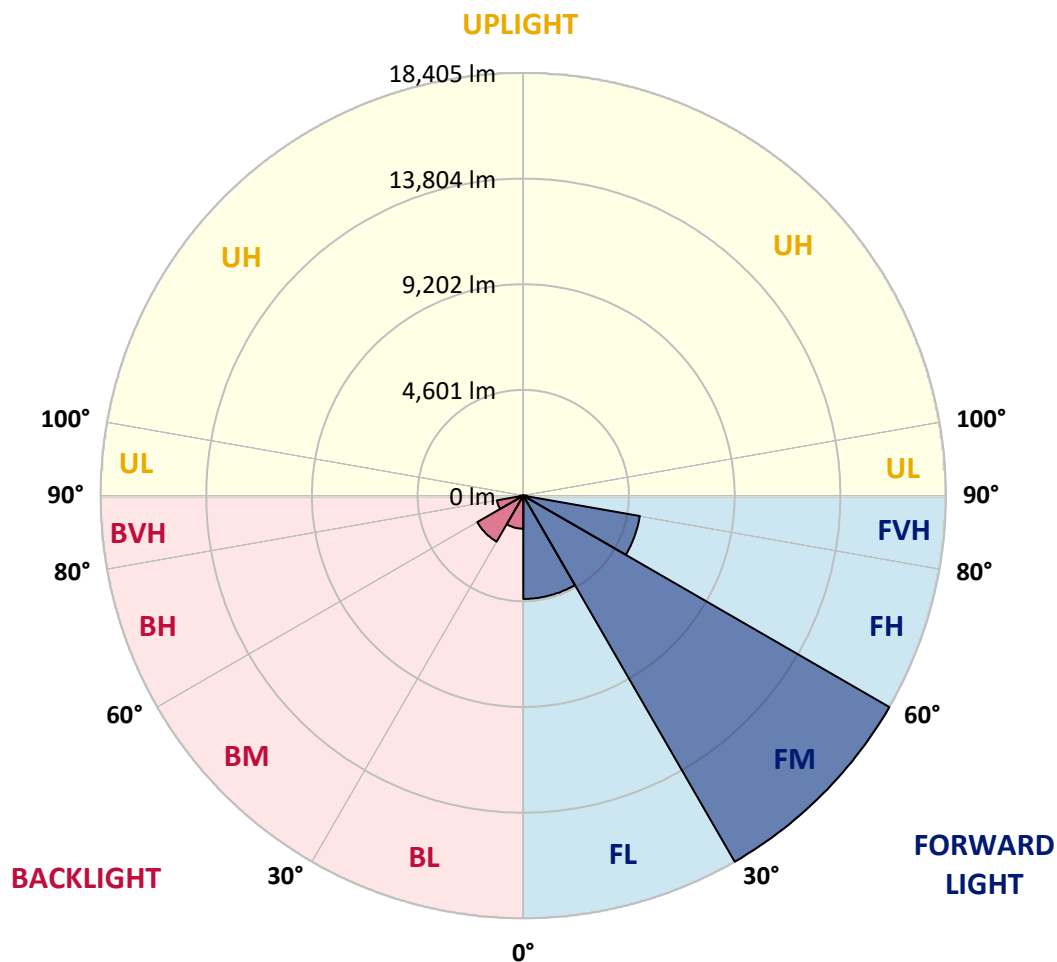
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4496.9	13.5			
FM	(30°-60°)	18404.8	55.3			
FH	(60°-80°)	5155.1	15.5			G3/7500
FVH	(80°-90°)	151.3	0.5			G2/225
BL	(0°-30°)	1441.5	4.3	B3/2500		
BM	(30°-60°)	2313.2	7.0	B2/2500		
BH	(60°-80°)	1164.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	140.3	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°	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0
2.5°	8684.4	8589.7	8515.0	8449.5	8363.9	8132.6	7901.3	7897.7	7713.8	7429.7	7138.3
5°	10099.3	9971.8	9988.2	9784.3	9580.3	9245.2	8755.4	8729.9	8338.4	7806.6	7265.8
7.5°	11020.7	11022.5	10971.6	10855.0	10634.7	10254.1	9698.7	9573.0	9028.5	8221.8	7411.5
10°	10973.4	11022.5	11108.1	11208.3	11275.7	11088.1	10581.9	10428.9	9720.5	8724.4	7573.6
12.5°	10343.3	10419.8	10541.8	10793.1	11199.2	11508.7	11335.8	11211.9	10521.8	9225.2	7752.0
15°	9950.0	9995.5	10062.9	10232.2	10669.3	11410.4	11858.4	11792.8	11277.5	9791.5	7952.3
17.5°	9829.8	9875.3	9897.2	10001.0	10312.3	11071.7	12064.2	12180.7	11947.6	10312.3	8154.5
20°	9950.0	9971.8	9971.8	10033.7	10277.8	10873.2	12055.1	12290.0	12497.6	10937.0	8343.8
22.5°	10265.0	10274.1	10261.4	10283.2	10465.3	10927.8	11969.5	12260.8	12941.9	11466.9	8491.3
25°	10776.7	10791.3	10707.5	10656.5	10789.5	11168.2	12016.8	12284.5	13289.7	11973.1	8589.7
27.5°	11357.6	11375.8	11273.8	11155.5	11217.4	11465.0	12202.6	12442.9	13550.1	12472.1	8651.6
30°	12069.6	12076.9	11905.7	11763.7	11723.6	11907.5	12519.4	12743.4	13874.2	13060.2	8744.5
32.5°	12798.0	12852.7	12632.3	12432.0	12364.6	12421.1	12987.4	13204.1	14260.3	13692.1	8893.8
35°	13788.6	13797.8	13533.7	13289.7	13067.5	13140.4	13586.5	13743.1	14793.8	14422.4	9105.0
37.5°	15025.1	15108.9	14744.7	14289.4	14016.3	13910.7	14311.3	14482.5	15542.3	15318.3	9423.7
40°	16398.1	16429.1	16117.7	15833.6	15334.7	15028.8	15305.5	15491.3	16465.5	16387.2	9793.4
42.5°	17261.3	17328.7	17352.4	17323.2	16948.1	16434.6	16540.2	16627.6	17558.1	17390.6	10172.1
45°	17552.7	17652.8	17991.5	18709.0	18749.1	18242.8	17997.0	18080.8	18749.1	18403.1	10534.5
47.5°	17070.1	17241.3	17865.9	19337.2	20439.0	20477.2	19736.0	19552.1	19834.4	19242.6	10796.7
50°	15822.7	15859.1	16815.2	18945.7	21231.1	22613.2	21846.6	21504.2	20865.1	19863.5	10977.0
52.5°	13892.4	13934.3	14735.6	17126.5	20743.1	24106.5	24315.9	23704.0	21912.1	20346.1	11095.4
55°	10312.3	10554.5	11435.9	13746.8	18430.4	23966.2	26278.9	25931.1	23177.7	20728.5	11281.1
57.5°	6340.7	6118.6	7163.8	9352.7	13861.5	22039.6	26885.3	26998.2	24570.8	21049.0	11592.5
60°	2917.2	2961.0	3392.5	4823.8	8449.5	17241.3	25322.9	26036.7	25341.1	21038.1	11670.8
62.5°	2010.4	1970.3	1861.1	2117.8	3853.2	10904.2	21389.5	22598.7	23796.9	20384.3	11359.4
65°	1797.3	1757.3	1546.0	1475.0	1770.0	4752.8	15549.6	17075.6	20036.5	18734.5	10583.7
67.5°	1679.0	1624.3	1405.8	1267.4	1263.8	1892.0	9168.8	11006.2	14861.2	15839.1	9170.6
70°	1555.1	1511.4	1294.7	1141.8	1076.2	1189.1	4029.9	5275.5	9649.5	11414.1	7143.8
72.5°	1431.3	1380.3	1185.5	1021.6	936.0	890.5	1544.2	2008.6	5452.1	6843.3	4379.5
75°	1251.0	1225.5	1059.8	925.1	832.2	719.3	979.7	1118.1	2607.7	3143.1	2198.0
77.5°	1094.4	1067.1	941.5	808.5	741.1	584.5	695.6	759.4	1099.9	1274.7	992.4
80°	801.2	828.6	794.0	713.8	661.0	458.9	468.0	520.8	653.7	722.9	606.4
82.5°	508.1	559.0	611.9	549.9	500.8	362.4	324.1	344.2	446.1	473.5	269.5
85°	213.1	216.7	355.1	335.1	285.9	214.9	194.8	205.8	238.6	249.5	125.6
87.5°	81.9	80.1	125.6	116.5	89.2	61.9	61.9	69.2	94.7	87.4	40.1
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°	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0	6989.0
2.5°	7012.7	6883.4	6626.6	6308.0	6074.9	5812.6	5581.4	5415.7	5353.8	5324.6	5270.0
5°	7007.2	6752.3	6220.6	5663.3	5215.4	4756.5	4368.6	4117.3	4095.4	3927.9	3911.5
7.5°	7009.0	6619.4	5772.6	4953.1	4270.3	3800.4	3479.9	3396.2	3296.0	3270.5	3283.3
10°	7014.5	6450.0	5291.8	4250.2	3589.2	3281.5	3161.3	3128.5	3132.1	3143.1	3144.9
12.5°	7021.8	6286.1	4792.9	3716.7	3206.8	3079.3	3066.6	3095.7	3126.7	3150.3	3155.8
15°	7030.9	6098.5	4306.7	3286.9	3015.6	3004.7	3046.5	3095.7	3139.4	3174.0	3179.5
17.5°	7020.0	5880.0	3898.8	3022.9	2910.0	2962.8	3032.0	3093.9	3133.9	3166.7	3170.4
20°	6994.5	5636.0	3505.4	2837.1	2844.4	2930.0	3004.7	3062.9	3106.6	3123.0	3135.8
22.5°	6896.1	5344.6	3163.1	2693.3	2766.1	2884.5	2973.7	3008.3	2959.1	2924.5	2933.6
25°	6728.6	4965.9	2844.4	2576.7	2695.1	2820.7	2911.8	2828.0	2788.0	2773.4	2780.7
27.5°	6519.2	4550.7	2604.0	2454.7	2604.0	2749.7	2724.2	2709.7	2691.4	2667.8	2673.2
30°	6293.4	4144.6	2400.1	2360.0	2505.7	2589.5	2600.4	2624.1	2604.0	2567.6	2582.2
32.5°	6084.0	3762.2	2245.3	2279.9	2436.5	2423.8	2505.7	2533.0	2440.1	2318.1	2323.6
35°	5905.5	3407.1	2128.8	2201.6	2318.1	2323.6	2405.5	2310.9	2210.7	2152.4	2156.1
37.5°	5770.8	3130.3	2052.3	2134.2	2167.0	2236.2	2192.5	2143.3	2130.6	2090.5	2092.3
40°	5690.6	2888.1	2003.1	2081.4	2075.9	2123.3	1983.1	2032.2	2050.5	2037.7	2039.5
42.5°	5610.5	2716.9	1952.1	2008.6	2006.7	1913.9	1882.9	1924.8	1972.1	1977.6	1974.0
45°	5546.8	2584.0	1899.3	1897.5	1933.9	1788.2	1779.1	1804.6	1872.0	1904.8	1902.9
47.5°	5475.8	2472.9	1819.2	1768.2	1779.1	1709.9	1695.4	1706.3	1788.2	1841.0	1855.6
50°	5386.5	2361.8	1719.0	1649.8	1604.3	1637.1	1640.7	1642.5	1724.5	1784.6	1797.3
52.5°	5315.5	2278.1	1604.3	1553.3	1498.7	1571.5	1598.8	1602.5	1651.7	1700.8	1709.9
55°	5357.4	2230.7	1491.4	1455.0	1405.8	1504.1	1557.0	1564.2	1575.2	1611.6	1617.1
57.5°	5483.0	2241.7	1400.4	1353.0	1316.6	1424.0	1513.3	1518.7	1511.4	1555.1	1562.4
60°	5521.3	2236.2	1333.0	1240.1	1218.3	1338.4	1449.5	1460.4	1458.6	1522.4	1535.1
62.5°	5361.0	2167.0	1265.6	1145.4	1130.8	1251.0	1360.3	1404.0	1413.1	1504.1	1520.5
65°	4984.1	2025.0	1176.4	1045.3	1045.3	1158.2	1274.7	1334.8	1360.3	1482.3	1500.5
67.5°	4487.0	1857.4	1085.3	959.7	956.0	1068.9	1183.7	1245.6	1285.6	1451.3	1462.3
70°	3724.0	1631.6	972.4	866.8	866.8	968.8	1072.6	1147.2	1205.5	1393.1	1393.1
72.5°	2551.2	1356.6	835.8	761.2	763.0	857.7	963.3	1047.1	1116.3	1276.5	1280.2
75°	1613.4	1059.8	686.5	648.3	655.6	744.8	854.1	941.5	1079.9	1262.0	1267.4
77.5°	857.7	744.8	546.3	537.2	546.3	628.2	750.3	870.4	1083.5	1094.4	1076.2
80°	555.4	528.1	431.6	413.4	417.0	506.2	668.3	826.7	870.4	881.4	841.3
82.5°	302.3	335.1	305.9	287.7	287.7	395.2	570.0	657.4	624.6	519.0	495.3
85°	129.3	156.6	158.4	138.4	132.9	244.0	382.4	358.7	333.2	318.7	315.0
87.5°	36.4	51.0	51.0	38.2	29.1	67.4	76.5	21.9	0.0	1.8	3.6
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)