

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: P456878

Luminaire Tested: **GALN-SA8A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29512 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 244
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

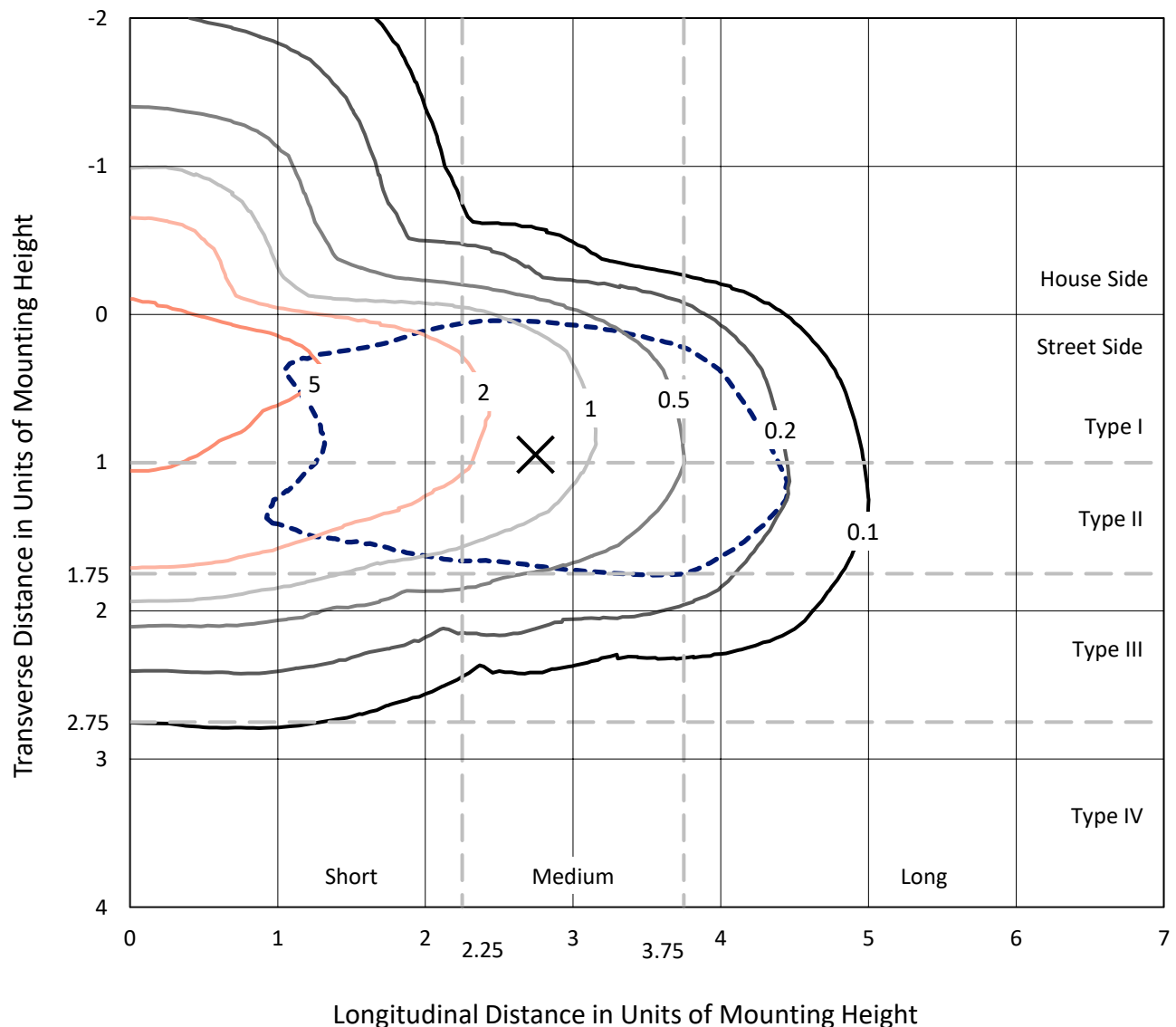


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

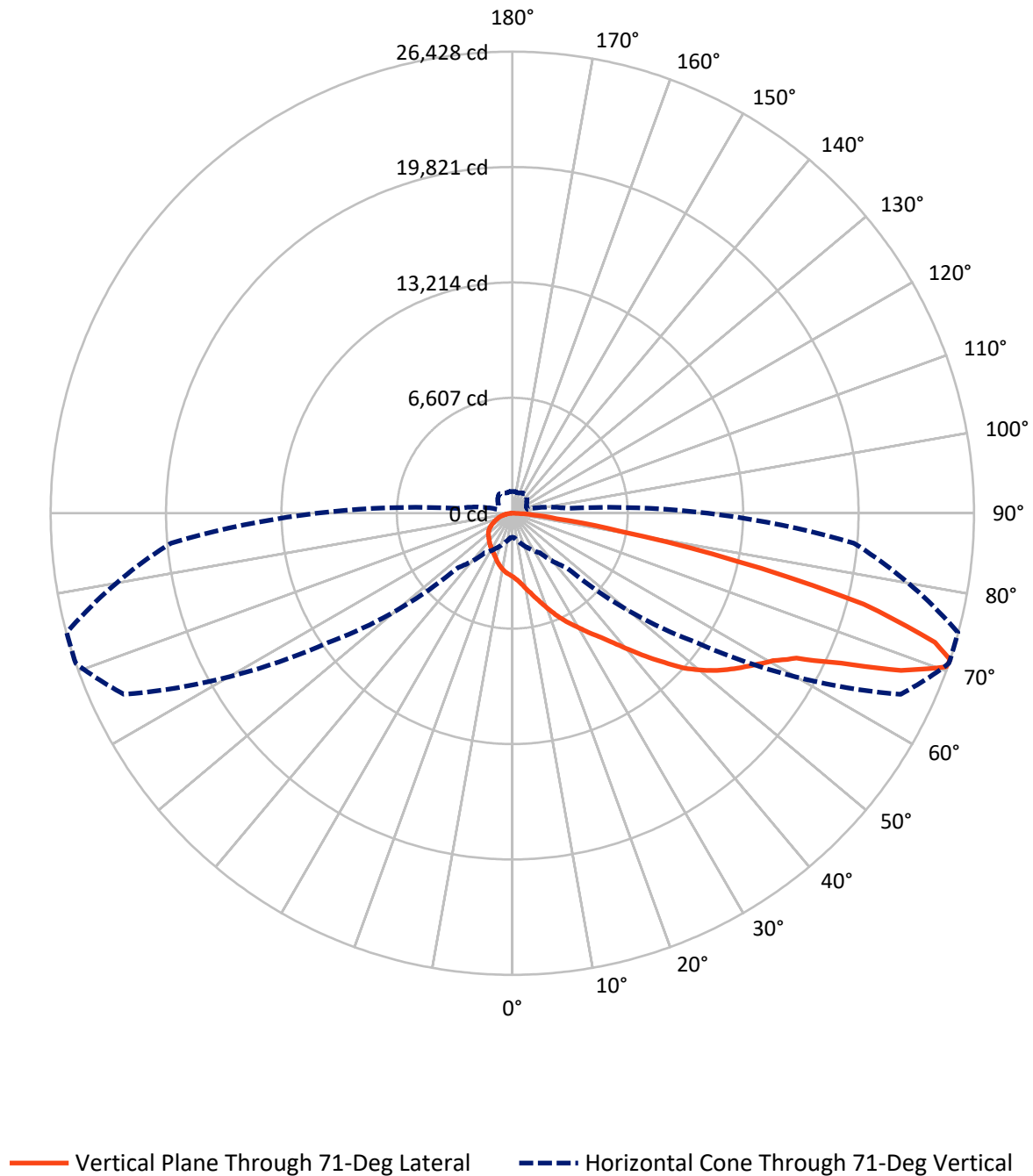


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5307.7	0.0	5307.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	24204.3	0.0	24204.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	29512.0	0.0	29512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.2
10°-20°	1181.6	4.0
20°-30°	2064.9	7.0
30°-40°	3071.2	10.4
40°-50°	4525.0	15.3
50°-60°	6335.1	21.5
60°-70°	7085.6	24.0
70°-80°	4328.2	14.7
80°-90°	556.8	1.9
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°	29512.0	100.0
0°-180°	29512.0	100.0

Coefficient of Utilization



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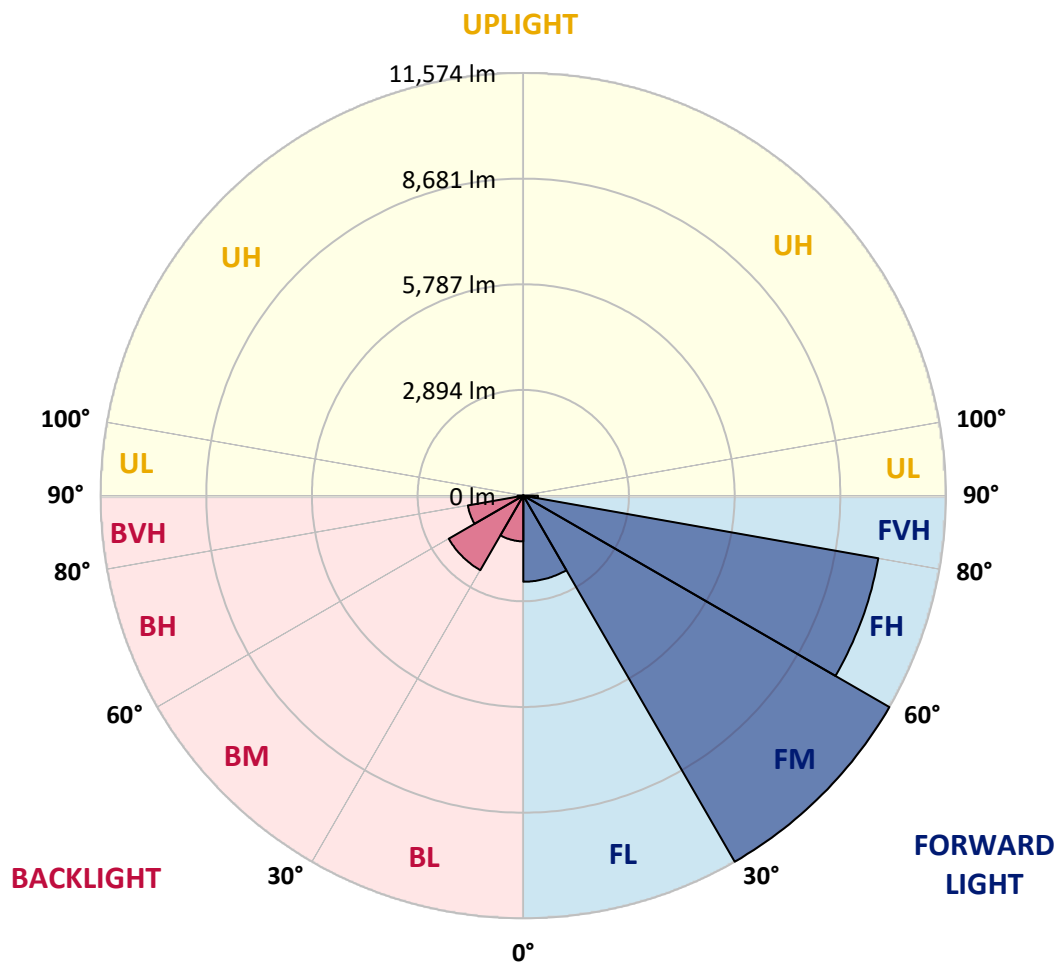
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2358.0	8.0			
FM	(30°-60°)	11574.0	39.2			
FH	(60°-80°)	9871.7	33.4			G4/12000
FVH	(80°-90°)	400.6	1.4			G3/500
BL	(0°-30°)	1252.1	4.2	B3/2500		
BM	(30°-60°)	2357.3	8.0	B2/2500		
BH	(60°-80°)	1542.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	156.2	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0
2.5°	4021.0	4001.6	4003.2	3975.6	3939.9	3901.0	3845.9	3797.2	3758.3	3735.6	3669.1
5°	4455.7	4436.3	4411.9	4351.9	4326.0	4230.3	4108.6	3998.3	3914.0	3866.9	3733.9
7.5°	4807.7	4802.9	4796.4	4762.3	4695.8	4562.8	4459.0	4267.6	4142.7	4053.5	3826.4
10°	5025.1	5033.2	5038.1	5044.5	5017.0	4947.2	4804.5	4562.8	4403.8	4290.3	3946.4
12.5°	5135.4	5143.5	5171.1	5231.1	5268.4	5260.3	5143.5	4906.7	4687.7	4538.5	4074.6
15°	5203.5	5216.5	5265.1	5344.6	5469.5	5549.0	5492.2	5273.3	5033.2	4856.4	4227.0
17.5°	5278.1	5292.7	5346.2	5459.8	5623.6	5795.5	5857.2	5669.0	5407.9	5197.0	4397.4
20°	5320.3	5339.8	5416.0	5565.2	5756.6	6006.4	6210.8	6111.8	5826.4	5592.8	4593.6
22.5°	5388.4	5404.6	5469.5	5628.5	5857.2	6170.2	6564.4	6543.3	6291.9	5990.2	4809.3
25°	5573.3	5599.3	5631.7	5727.4	5948.0	6337.3	6858.0	7004.0	6742.8	6405.4	5007.2
27.5°	5922.1	5943.2	5941.5	5954.5	6079.4	6481.7	7112.6	7459.8	7190.5	6825.5	5198.6
30°	6319.5	6327.6	6334.1	6304.9	6332.4	6629.3	7346.2	7910.7	7641.4	7257.0	5365.7
32.5°	6802.8	6819.1	6763.9	6689.3	6666.6	6848.3	7539.2	8361.6	8175.1	7695.0	5531.2
35°	7373.8	7416.0	7304.0	7172.7	7080.2	7162.9	7798.8	8822.3	8721.7	8254.6	5750.1
37.5°	8025.9	8077.8	7973.9	7716.0	7584.7	7607.4	8137.8	9391.6	9412.7	8892.0	6076.2
40°	8559.5	8627.6	8630.9	8265.9	8066.4	8092.4	8567.6	10004.7	10246.4	9680.3	6460.6
42.5°	8911.5	8978.0	9047.7	8833.6	8624.4	8772.0	9068.8	10669.8	11184.0	10637.3	6997.5
45°	9297.5	9357.6	9396.5	9299.2	9182.4	9565.2	9673.8	11377.0	12183.1	11706.3	7584.7
47.5°	9745.2	9811.7	9849.0	9756.6	9712.8	10261.0	10325.9	12037.2	13250.4	12744.4	8233.5
50°	10342.1	10392.4	10372.9	10314.6	10304.8	10794.7	10952.0	12655.2	14131.2	13862.0	8906.6
52.5°	11085.0	11145.0	11166.1	11083.4	11046.1	11175.9	11456.5	13218.0	14932.5	14822.2	9625.2
55°	11534.3	11630.0	11951.2	12081.0	12170.2	11669.0	11999.9	13839.2	15651.1	15834.4	10397.3
57.5°	10958.5	11081.8	11800.3	12449.2	13287.8	12901.7	12770.3	14488.1	16369.6	16815.7	11321.8
60°	9553.8	9581.4	10507.6	11703.0	13389.9	14486.4	14377.8	15519.7	17148.2	17805.1	12540.0
62.5°	6627.7	6686.0	7780.9	9688.4	12128.0	15057.4	17112.5	17300.7	18264.2	19286.1	14325.9
65°	3417.6	3341.4	4339.0	6089.1	9143.4	13701.4	19328.2	20575.6	20684.3	21602.3	16840.0
67.5°	2103.8	2137.8	2605.0	3555.5	5406.3	9957.7	19096.3	24577.2	24004.6	24445.8	19174.1
70°	1579.9	1622.0	1943.2	2433.1	3296.0	5693.4	15357.5	25547.1	26346.8	26233.3	19884.6
71°	1373.9	1417.7	1751.8	2214.1	2768.8	4394.1	12939.0	24531.7	26427.9	26408.4	19617.0
72.5°	1171.1	1198.7	1459.8	1875.1	2334.1	3080.3	9720.9	22001.4	25300.6	25947.8	18661.6
75°	919.7	940.8	1057.6	1430.6	1837.8	1891.3	5216.5	16494.5	20780.0	22012.7	15535.9
77.5°	749.4	764.0	824.0	1062.4	1417.7	1339.8	2736.4	10736.3	13018.5	14259.4	9151.6
80°	595.3	611.5	647.2	720.2	1062.4	955.4	1305.7	5440.3	6288.7	6275.7	3652.8
82.5°	462.3	467.1	509.3	528.8	726.7	678.0	707.2	2303.3	2551.5	2635.8	1318.7
85°	292.0	306.6	450.9	405.5	434.7	397.4	348.7	914.8	1127.3	1111.1	527.2
87.5°	89.2	94.1	152.5	171.9	193.0	173.6	128.1	269.3	329.3	356.8	131.4
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°	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0
2.5°	3643.1	3625.3	3562.0	3510.1	3461.4	3407.9	3362.5	3349.5	3338.2	3333.3	3331.7
5°	3677.2	3623.6	3498.7	3396.6	3315.5	3240.8	3193.8	3172.7	3151.6	3151.6	3158.1
7.5°	3725.8	3628.5	3435.5	3283.0	3180.8	3111.1	3077.0	3073.8	3078.6	3083.5	3085.1
10°	3779.4	3625.3	3343.0	3153.2	3062.4	3030.0	3031.6	3059.2	3085.1	3104.6	3107.8
12.5°	3831.3	3605.8	3234.3	3031.6	2973.2	2979.7	3025.1	3086.7	3137.0	3164.6	3166.2
15°	3889.7	3575.0	3103.0	2916.4	2897.0	2947.2	3031.6	3125.7	3201.9	3247.3	3252.2
17.5°	3938.3	3523.1	2965.1	2804.5	2828.8	2921.3	3038.1	3159.7	3252.2	3309.0	3318.7
20°	3993.5	3456.6	2822.4	2697.5	2767.2	2892.1	3025.1	3156.5	3252.2	3307.3	3320.3
22.5°	4037.3	3362.5	2686.1	2609.9	2712.1	2856.4	2981.3	3086.7	3164.6	3193.8	3213.3
25°	4055.1	3244.1	2558.0	2538.5	2668.3	2798.0	2882.4	2942.4	2966.7	2963.5	2971.6
27.5°	4045.4	3107.8	2447.7	2481.7	2613.1	2707.2	2749.4	2744.5	2700.7	2660.1	2679.6
30°	4004.8	2945.6	2355.2	2423.3	2541.7	2593.6	2587.2	2523.9	2441.2	2364.9	2369.8
32.5°	3931.8	2770.4	2269.2	2356.8	2441.2	2463.9	2420.1	2337.4	2219.0	2120.0	2105.4
35°	3870.2	2603.4	2193.0	2280.6	2340.6	2329.2	2287.1	2180.0	2073.0	1985.4	1970.8
37.5°	3860.5	2460.6	2120.0	2194.6	2228.7	2212.5	2160.6	2069.7	2030.8	1964.3	1956.2
40°	3912.4	2360.1	2045.4	2103.8	2120.0	2107.0	2050.3	1998.4	2034.0	2017.8	2017.8
42.5°	4053.5	2306.5	1978.9	2013.0	2025.9	2035.7	1995.1	1951.3	1995.1	1920.5	1896.2
45°	4277.3	2308.2	1918.9	1923.7	1962.7	1996.7	1969.2	1904.3	1881.6	1732.3	1703.1
47.5°	4606.6	2363.3	1870.2	1839.4	1909.1	1965.9	1927.0	1832.9	1732.3	1633.4	1615.6
50°	4991.0	2462.3	1826.4	1751.8	1837.8	1927.0	1897.8	1787.5	1683.7	1623.7	1612.3
52.5°	5417.6	2587.2	1772.9	1654.5	1750.2	1909.1	1904.3	1781.0	1638.3	1597.7	1588.0
55°	5944.8	2710.4	1706.4	1540.9	1672.3	1894.5	1886.4	1727.5	1628.5	1599.3	1596.1
57.5°	6557.9	2888.9	1610.7	1425.8	1583.1	1834.5	1816.7	1695.0	1596.1	1575.0	1573.4
60°	7545.7	3166.2	1474.4	1320.3	1492.3	1729.1	1751.8	1639.9	1544.2	1539.3	1537.7
62.5°	8845.0	3555.5	1333.3	1211.7	1386.8	1592.8	1657.7	1565.3	1489.0	1513.4	1516.6
65°	10639.0	3883.2	1187.3	1119.2	1270.1	1461.5	1568.5	1495.5	1427.4	1474.4	1474.4
67.5°	11808.5	3889.7	1054.3	1023.5	1151.6	1351.2	1474.4	1412.8	1347.9	1427.4	1430.6
70°	11565.1	3407.9	944.0	922.9	1036.5	1232.8	1370.6	1322.0	1247.3	1318.7	1292.8
71°	11172.6	3140.3	900.2	884.0	991.1	1176.0	1322.0	1281.4	1206.8	1253.8	1239.2
72.5°	10546.5	2726.6	828.9	832.1	922.9	1104.6	1253.8	1211.7	1137.1	1163.0	1158.1
75°	8914.7	2381.2	708.8	723.4	793.2	983.0	1117.6	1085.1	1008.9	1008.9	1004.0
77.5°	5573.3	1664.2	588.8	596.9	673.1	841.8	960.2	932.7	859.7	835.4	828.9
80°	2079.5	859.7	460.7	470.4	517.4	663.4	794.8	768.8	694.2	666.7	640.7
82.5°	786.7	431.5	339.0	330.9	381.2	506.1	622.9	592.0	533.7	467.1	447.7
85°	296.8	214.1	207.6	201.1	223.8	300.1	386.0	379.6	317.9	270.9	266.0
87.5°	77.9	69.7	81.1	60.0	63.3	56.8	58.4	24.3	11.4	4.9	3.2
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)