

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: P532608

Luminaire Tested: **GALN-SA8A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25904 lumens
Efficiency: N/A
Efficacy: 106.2 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

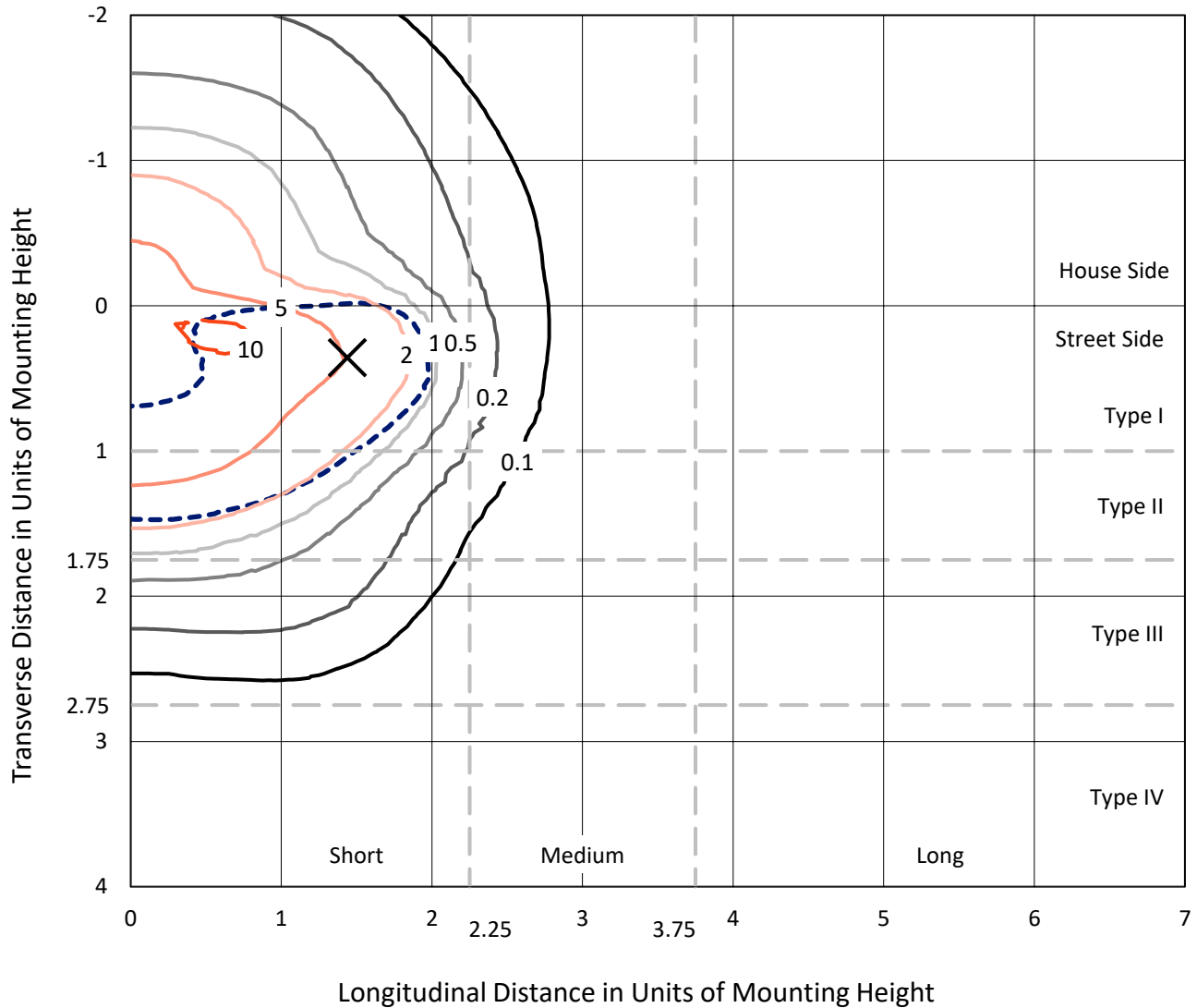
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

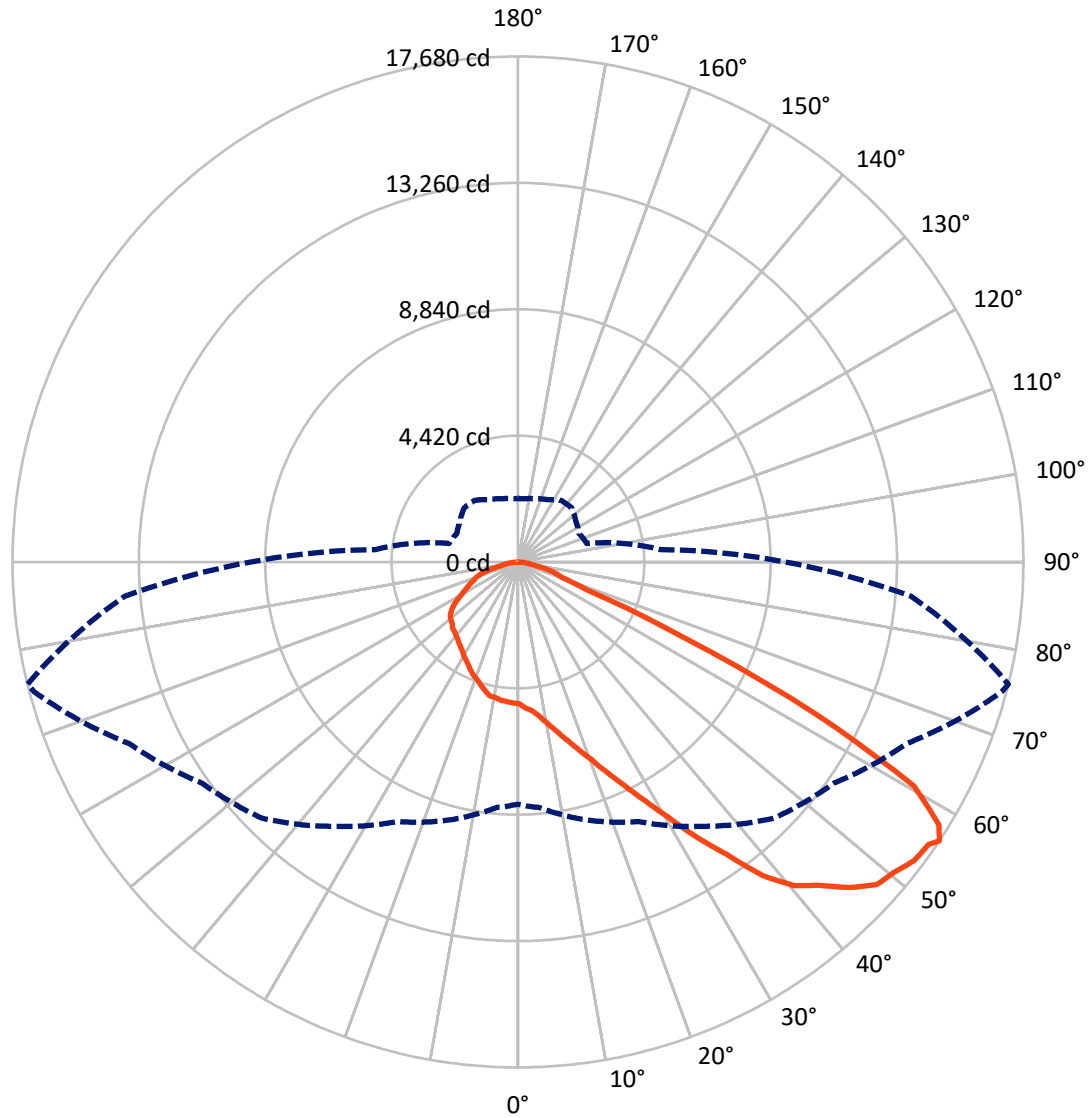
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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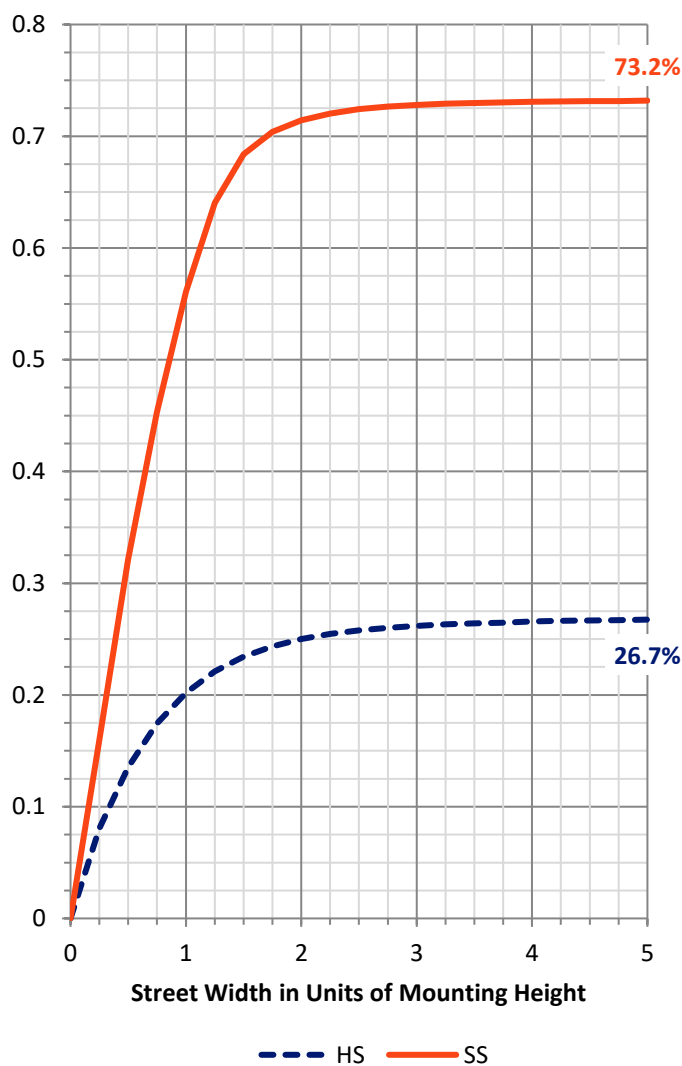
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6964.8	0.0	6964.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18939.2	0.0	18939.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	25904.0	0.0	25904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.5	1.9
10°-20°	1544.0	6.0
20°-30°	2700.3	10.4
30°-40°	4227.9	16.3
40°-50°	6150.4	23.7
50°-60°	6759.7	26.1
60°-70°	3017.2	11.6
70°-80°	871.5	3.4
80°-90°	141.4	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°	25904.0	100.0
0°-180°	25904.0	100.0

Coefficient of Utilization



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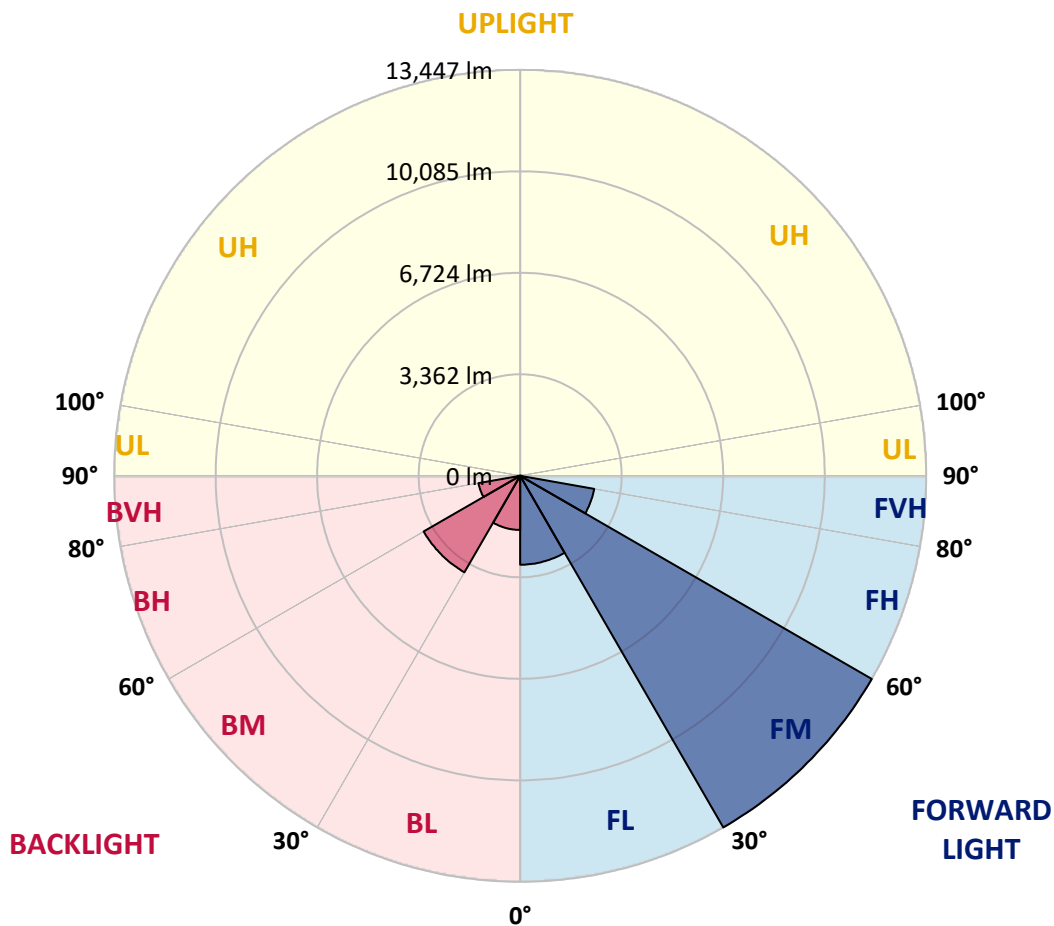
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.7	11.4			
FM (30°-60°)	13447.2	51.9			
FH (60°-80°)	2487.4	9.6			G2/5000
FVH (80°-90°)	60.8	0.2			G1/100
BL (0°-30°)	1792.2	6.9	B3/2500		
BM (30°-60°)	3690.8	14.2	B3/5000		
BH (60°-80°)	1401.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	80.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4
2.5°	5460.1	5372.8	5366.1	5342.6	5356.0	5295.6	5231.8	5147.8	5060.5	5114.2	4986.6
5°	5842.9	5725.4	5772.4	5691.8	5701.9	5621.3	5490.3	5392.9	5285.5	5221.7	5131.0
7.5°	5977.2	5987.3	6020.9	6007.4	5940.3	5940.3	5853.0	5681.7	5493.7	5456.7	5305.6
10°	6158.6	6161.9	6125.0	6135.1	6229.1	6185.4	6108.2	6034.3	5792.5	5748.9	5480.2
12.5°	6222.4	6161.9	6222.4	6276.1	6386.9	6447.3	6430.6	6376.8	6118.3	6088.0	5695.2
15°	6232.4	6195.5	6245.9	6366.8	6464.1	6719.3	6846.9	6810.0	6467.5	6470.9	5936.9
17.5°	6185.4	6235.8	6255.9	6360.0	6585.0	6823.4	7192.8	7243.2	6961.1	6917.5	6242.5
20°	6249.2	6212.3	6239.2	6333.2	6632.0	7004.8	7488.3	7820.8	7424.5	7394.3	6558.2
22.5°	6494.4	6444.0	6437.3	6497.7	6712.6	7098.8	7800.6	8398.3	7988.7	8005.5	6951.0
25°	6685.8	6712.6	6689.1	6685.8	6820.1	7239.8	8213.7	9086.7	8754.3	8656.9	7414.4
27.5°	7014.8	7078.6	7031.6	7095.4	7065.2	7451.4	8509.2	9849.0	9580.4	9449.4	7834.2
30°	7471.5	7505.1	7461.5	7461.5	7370.8	7746.9	8777.8	10644.8	10534.0	10356.1	8327.8
32.5°	8072.6	8123.0	8035.7	7985.3	7971.9	8186.8	9261.3	11430.6	11618.7	11467.5	8982.6
35°	8868.5	8838.2	8734.1	8687.1	8505.8	8861.7	9980.0	12333.9	12827.5	12558.9	9775.1
37.5°	9570.3	9523.3	9516.6	9254.6	9298.3	9590.4	10591.1	13018.9	13999.5	13922.2	10611.3
40°	10225.1	10268.7	10339.3	10191.5	10124.3	10446.7	11303.0	13542.8	14909.5	14879.3	11256.0
42.5°	10926.9	10886.6	11010.9	10886.6	10785.9	11242.6	12075.3	13905.4	15708.7	15460.2	11930.9
45°	11944.4	11816.8	11860.4	11870.5	11796.6	11964.5	12394.4	14167.4	16269.5	16242.6	12424.6
47.5°	12794.0	12797.3	12723.4	12666.3	12441.4	12609.3	12750.3	14331.9	16914.2	16870.6	12616.0
50°	13109.6	13066.0	13280.9	13405.1	13418.5	13076.0	13029.0	14422.6	17253.4	17062.0	12807.4
52.5°	11974.6	12014.9	12354.1	13092.8	13519.3	13556.2	13354.7	14610.6	17391.0	17350.8	12961.9
55°	9637.4	9832.2	10389.6	11242.6	12253.3	13364.8	13707.3	14805.4	17464.9	17431.3	13646.9
56°	8472.2	8623.3	9348.7	10016.9	11286.2	12669.7	13485.7	15013.6	17522.0	17679.8	13808.1
57.5°	6820.1	6994.7	7515.2	8274.1	9771.8	11346.7	12874.5	14758.4	17300.4	17360.8	13925.6
60°	4264.7	4281.4	4906.0	5406.4	6460.8	7998.7	9825.5	12841.0	16010.9	15923.6	12508.5
62.5°	2797.2	2800.6	3368.1	3777.7	4257.9	4610.5	5782.5	8515.9	11813.4	11659.0	8905.4
65°	1964.4	2008.1	2448.0	2995.3	3190.1	3005.4	2968.5	4489.6	6598.5	6376.8	4785.1
67.5°	1437.2	1440.6	1830.1	2417.8	2699.8	2286.8	1857.0	2192.8	2612.5	2605.8	2216.3
70°	950.3	990.6	1289.5	1806.6	2129.0	1836.8	1517.8	1568.2	1662.2	1662.2	1648.8
72.5°	554.1	591.0	789.1	1145.1	1195.4	1148.4	1202.2	1343.2	1403.6	1400.3	1383.5
75°	315.7	332.4	376.1	476.8	594.4	701.8	883.2	1017.5	1077.9	1114.9	1071.2
77.5°	184.7	194.8	221.6	272.0	308.9	379.5	480.2	574.2	654.8	644.7	651.5
80°	97.4	97.4	124.2	161.2	214.9	268.6	319.0	372.7	416.4	426.5	436.5
82.5°	57.1	60.4	80.6	117.5	154.5	191.4	245.1	282.1	322.4	325.7	332.4
85°	30.2	33.6	50.4	77.2	104.1	117.5	120.9	114.2	124.2	117.5	134.3
87.5°	10.1	10.1	16.8	13.4	13.4	16.8	20.1	20.1	26.9	26.9	26.9
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°	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4	4956.4
2.5°	4983.3	4983.3	4926.2	4818.7	4801.9	4758.3	4718.0	4714.6	4684.4	4657.5	4644.1
5°	5077.3	4973.2	4889.2	4791.9	4677.7	4624.0	4563.5	4496.4	4469.5	4496.4	4493.0
7.5°	5184.7	5097.4	4845.6	4664.3	4533.3	4479.6	4412.4	4341.9	4348.6	4348.6	4301.6
10°	5288.8	5171.3	4768.4	4536.6	4345.2	4304.9	4268.0	4294.9	4328.5	4335.2	4304.9
12.5°	5463.5	5198.2	4731.4	4409.0	4288.2	4200.8	4224.4	4298.2	4368.7	4348.6	4372.1
15°	5594.4	5221.7	4563.5	4278.1	4127.0	4167.3	4251.2	4301.6	4419.1	4405.7	4429.2
17.5°	5722.0	5235.1	4399.0	4103.5	4039.7	4150.5	4214.3	4358.7	4395.6	4476.2	4506.4
20°	5983.9	5262.0	4231.1	3996.0	3975.9	4103.5	4214.3	4281.4	4362.0	4432.6	4432.6
22.5°	6118.3	5248.5	4120.3	3855.0	3918.8	3999.4	4100.1	4214.3	4214.3	4281.4	4284.8
25°	6286.2	5194.8	3945.6	3787.8	3834.8	3912.1	4026.2	3985.9	4029.6	4029.6	4083.3
27.5°	6477.6	5080.6	3794.5	3666.9	3761.0	3844.9	3861.7	3834.8	3784.5	3777.7	3757.6
30°	6632.0	4939.6	3683.7	3626.6	3703.9	3750.9	3697.2	3640.1	3552.8	3546.0	3499.0
32.5°	6843.6	4765.0	3546.0	3525.9	3613.2	3616.6	3599.8	3512.5	3384.9	3331.1	3277.4
35°	7199.5	4664.3	3441.9	3472.2	3499.0	3489.0	3458.7	3364.7	3237.1	3213.6	3193.5
37.5°	7461.5	4590.4	3334.5	3371.4	3394.9	3408.4	3317.7	3213.6	3217.0	3169.9	3156.5
40°	7757.0	4543.4	3247.2	3264.0	3267.3	3311.0	3200.2	3149.8	3173.3	3143.1	3163.2
42.5°	8136.4	4556.8	3156.5	3143.1	3206.9	3190.1	3136.4	3069.2	3082.6	2992.0	3005.4
45°	8337.9	4647.5	3102.8	3042.3	3112.9	3109.5	3039.0	2975.2	2894.6	2720.0	2726.7
47.5°	8472.2	4671.0	2975.2	2934.9	3008.8	3052.4	2971.8	2824.1	2709.9	2585.7	2555.4
50°	8609.9	4714.6	2914.7	2830.8	2861.0	2965.1	2864.4	2723.3	2612.5	2501.7	2518.5
52.5°	8730.8	4798.6	2797.2	2673.0	2726.7	2840.9	2787.1	2615.9	2495.0	2404.3	2377.5
55°	9268.1	4986.6	2599.1	2437.9	2565.5	2709.9	2679.7	2471.5	2340.5	2293.5	2286.8
56°	9352.0	4993.3	2495.0	2357.3	2474.8	2666.2	2629.3	2407.7	2290.2	2216.3	2219.6
57.5°	9365.4	4912.7	2347.2	2283.4	2384.2	2602.4	2555.4	2357.3	2196.1	2129.0	2108.8
60°	8240.5	3834.8	2162.5	2122.3	2239.8	2407.7	2390.9	2219.6	2038.3	1961.1	1998.0
62.5°	5617.9	2810.6	2018.2	2011.4	2071.9	2236.4	2192.8	2038.3	1887.2	1836.8	1813.3
65°	3270.7	2132.3	1877.1	1850.3	1900.6	1987.9	2018.2	1857.0	1699.1	1665.6	1655.5
67.5°	1930.8	1762.9	1695.8	1652.1	1635.3	1689.1	1712.6	1618.6	1460.7	1413.7	1454.0
70°	1615.2	1568.2	1571.5	1497.7	1457.4	1420.4	1400.3	1316.3	1185.4	1124.9	1108.1
72.5°	1393.6	1373.4	1360.0	1292.8	1255.9	1171.9	1084.6	1000.7	903.3	852.9	856.3
75°	1064.5	1057.8	1064.5	1030.9	967.1	899.9	819.4	711.9	638.0	574.2	587.6
77.5°	634.7	654.8	664.9	651.5	624.6	564.1	513.8	443.3	372.7	322.4	315.7
80°	436.5	453.3	470.1	453.3	426.5	382.8	329.1	275.4	225.0	198.1	191.4
82.5°	332.4	349.2	359.3	342.5	308.9	261.9	225.0	188.0	147.8	120.9	114.2
85°	120.9	137.7	134.3	161.2	174.6	167.9	144.4	110.8	83.9	60.4	57.1
87.5°	33.6	30.2	33.6	33.6	33.6	30.2	26.9	26.9	26.9	16.8	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

(END OF REPORT)