

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: P532920

Luminaire Tested: **GALN-SA8B-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532920
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-SA8B-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 38541 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

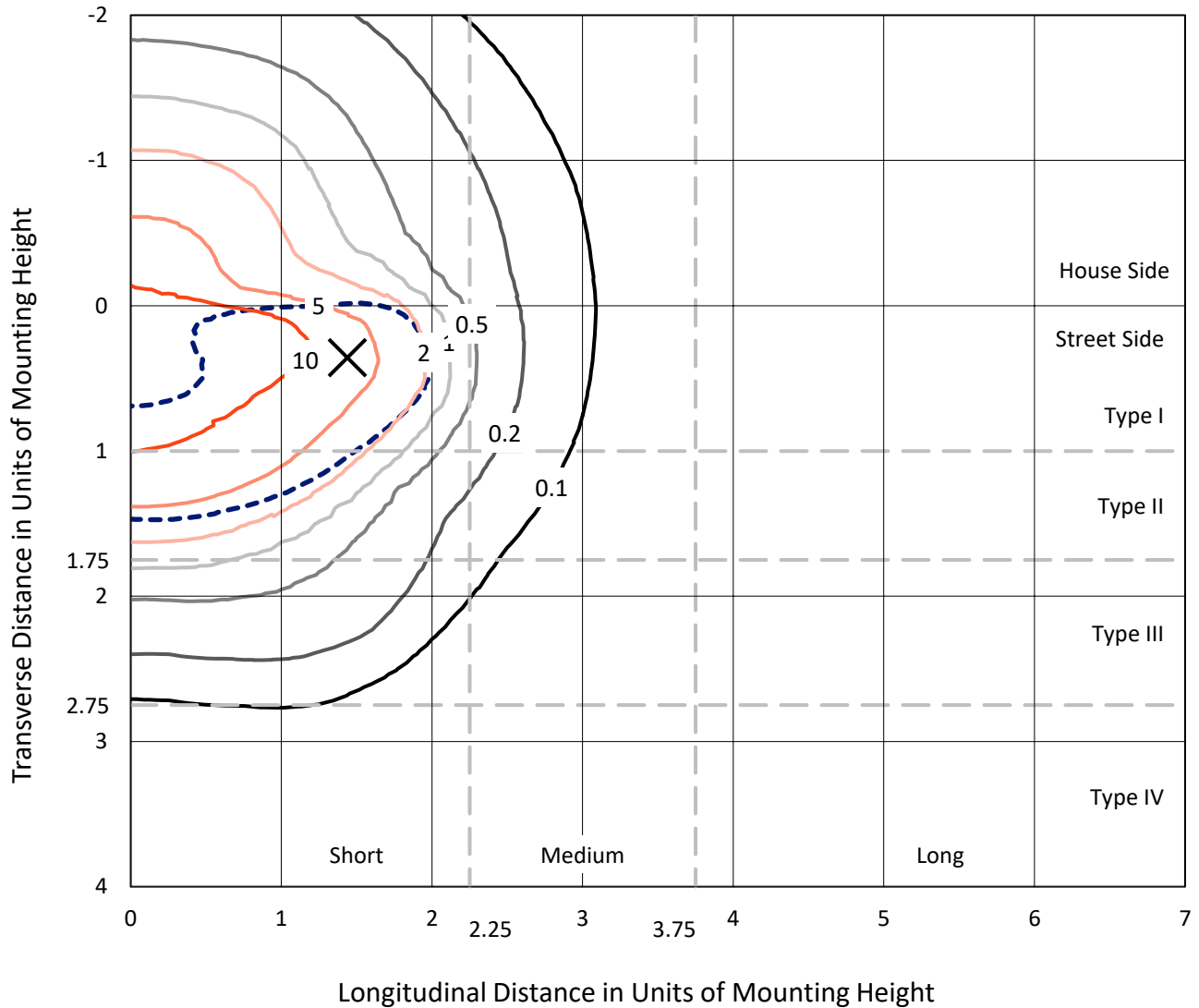
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

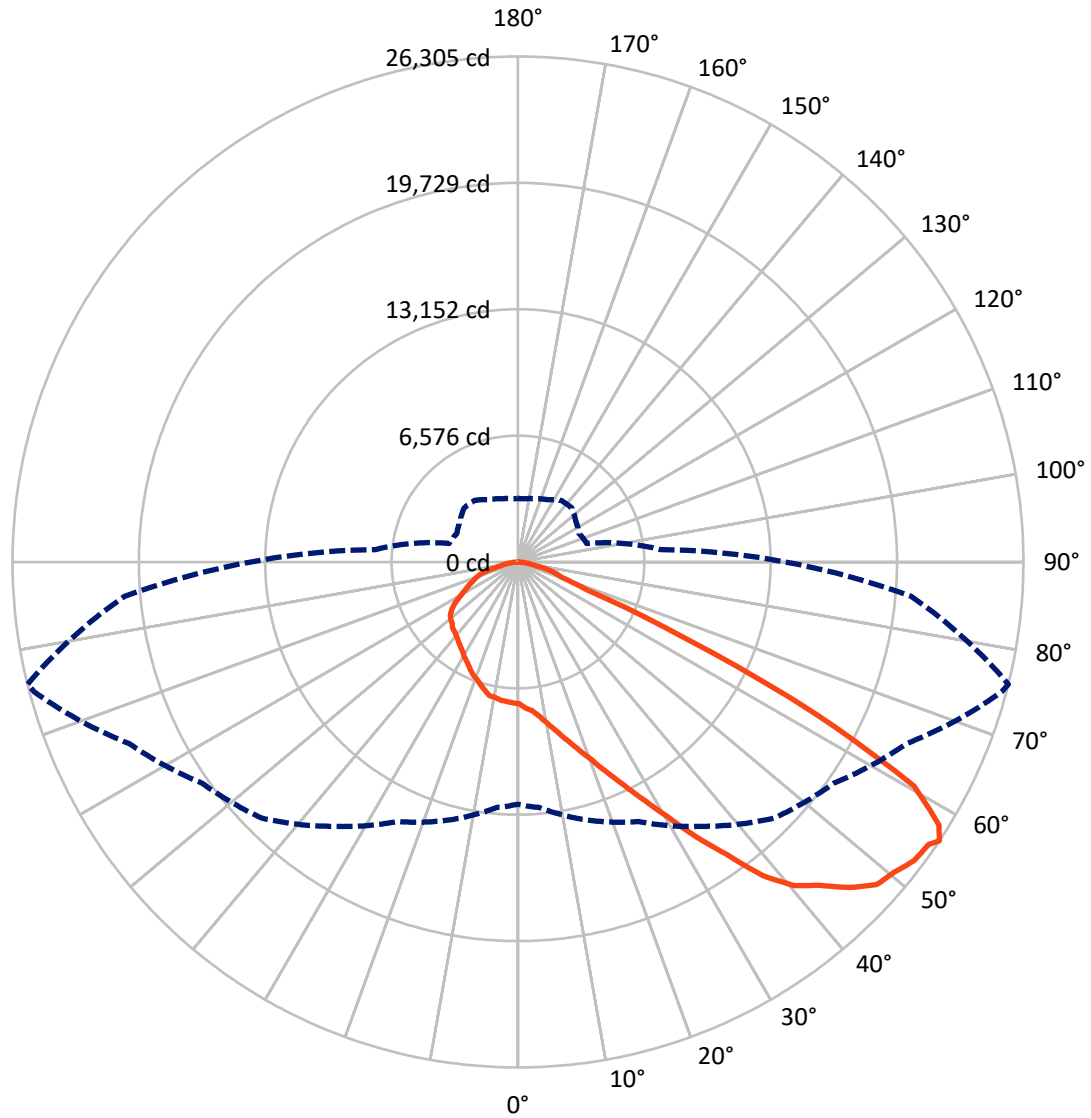
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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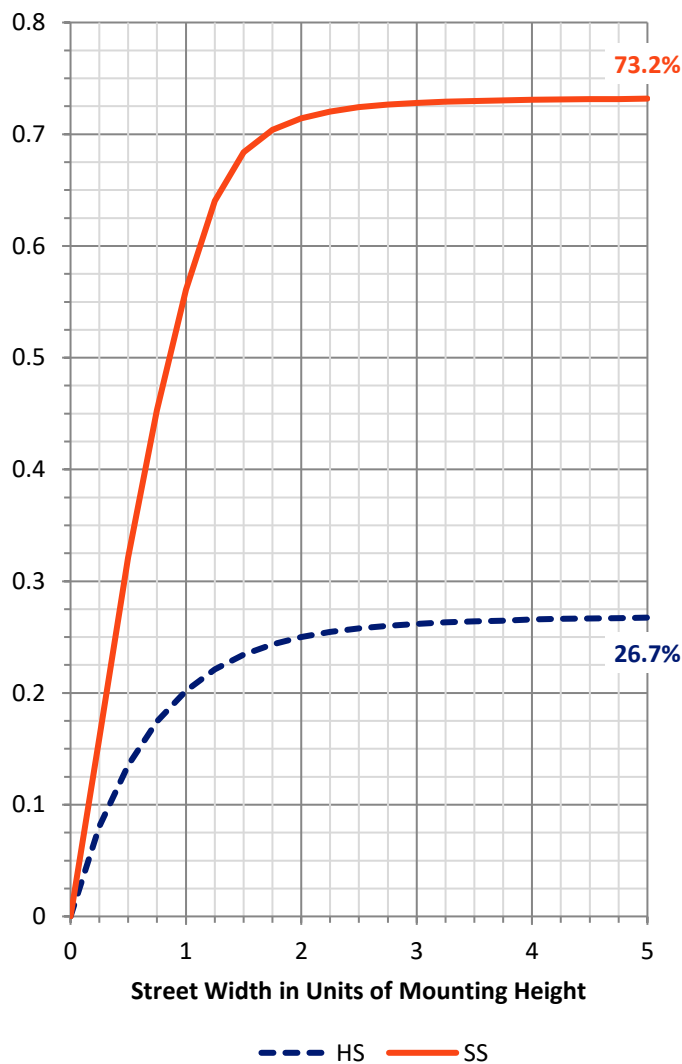
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10362.5	0.0	10362.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	28178.5	0.0	28178.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	38541.0	0.0	38541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.3	1.9
10°-20°	2297.3	6.0
20°-30°	4017.7	10.4
30°-40°	6290.5	16.3
40°-50°	9150.8	23.7
50°-60°	10057.3	26.1
60°-70°	4489.2	11.6
70°-80°	1296.6	3.4
80°-90°	210.3	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°	38541.0	100.0
0°-180°	38541.0	100.0

Coefficient of Utilization

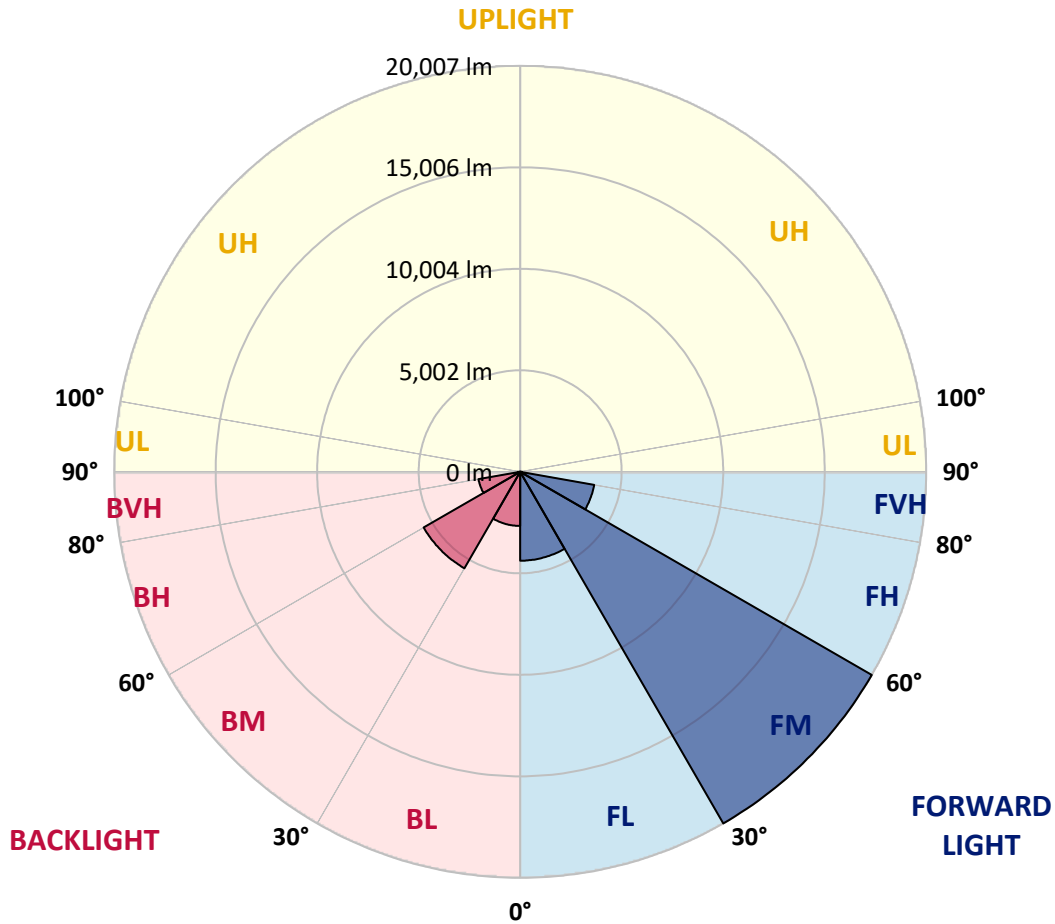


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4379.8	11.4			
FM (30°-60°)	20007.3	51.9			
FH (60°-80°)	3700.9	9.6			G2/5000
FVH (80°-90°)	90.5	0.2			G1/100
BL (0°-30°)	2666.5	6.9	B4/5000		
BM (30°-60°)	5491.3	14.2	B4/8500		
BH (60°-80°)	2085.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	119.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3
2.5°	8123.7	7993.8	7983.9	7948.9	7968.9	7878.9	7784.0	7659.1	7529.2	7609.1	7419.3
5°	8693.3	8518.4	8588.4	8468.5	8483.5	8363.6	8168.7	8023.8	7863.9	7769.0	7634.1
7.5°	8893.2	8908.1	8958.1	8938.1	8838.2	8838.2	8708.3	8453.5	8173.7	8118.8	7893.9
10°	9162.9	9167.9	9113.0	9128.0	9267.9	9202.9	9088.0	8978.1	8618.4	8553.4	8153.7
12.5°	9257.9	9167.9	9257.9	9337.8	9502.7	9592.6	9567.6	9487.7	9103.0	9058.0	8473.5
15°	9272.9	9217.9	9292.8	9472.7	9617.6	9997.3	10187.2	10132.2	9622.6	9627.6	8833.2
17.5°	9202.9	9277.9	9307.8	9462.7	9797.5	10152.2	10701.8	10776.7	10357.0	10292.1	9287.9
20°	9297.8	9242.9	9282.9	9422.7	9867.4	10422.0	11141.4	11636.0	11046.5	11001.5	9757.5
22.5°	9662.6	9587.6	9577.6	9667.6	9987.3	10561.9	11606.1	12495.4	11885.9	11910.8	10342.0
25°	9947.3	9987.3	9952.3	9947.3	10147.2	10771.7	12220.6	13519.6	13025.0	12880.1	11031.5
27.5°	10437.0	10531.9	10461.9	10556.9	10511.9	11086.5	12660.3	14653.7	14254.0	14059.2	11656.0
30°	11116.4	11166.4	11101.5	11101.5	10966.6	11526.1	13060.0	15837.8	15672.9	15408.1	12390.5
32.5°	12010.8	12085.7	11955.8	11880.9	11860.9	12180.6	13779.4	17006.9	17286.7	17061.9	13364.7
35°	13194.8	13149.9	12995.0	12925.1	12655.3	13184.9	14848.6	18350.9	19085.3	18685.6	14543.8
37.5°	14239.0	14169.1	14159.1	13769.4	13834.4	14269.0	15757.9	19370.1	20829.0	20714.1	15787.9
40°	15213.3	15278.2	15383.2	15163.3	15063.4	15543.0	16817.1	20149.5	22182.9	22138.0	16747.1
42.5°	16257.5	16197.5	16382.4	16197.5	16047.7	16727.1	17966.2	20689.1	23372.0	23002.3	17751.3
45°	17771.3	17581.5	17646.4	17661.4	17551.5	17801.3	18440.8	21078.8	24206.4	24166.4	18485.8
47.5°	19035.4	19040.3	18930.4	18845.5	18510.8	18760.6	18970.4	21323.6	25165.6	25100.7	18770.6
50°	19505.0	19440.0	19759.8	19944.7	19964.6	19455.0	19385.1	21458.5	25670.2	25385.5	19055.3
52.5°	17816.3	17876.2	18380.9	19480.0	20114.5	20169.5	19869.7	21738.3	25875.1	25815.1	19285.2
55°	14339.0	14628.7	15458.1	16727.1	18231.0	19884.7	20394.3	22028.0	25985.0	25935.0	20304.4
56°	12605.3	12830.1	13909.3	14903.5	16792.1	18850.5	20064.6	22337.8	26069.9	26304.8	20544.2
57.5°	10147.2	10407.0	11181.4	12310.5	14538.8	16882.0	19155.3	21958.1	25740.2	25830.1	20719.1
60°	6345.1	6370.1	7299.4	8043.8	9612.6	11900.8	14618.8	19105.3	23821.7	23691.8	18610.7
62.5°	4161.8	4166.8	5011.1	5620.7	6335.1	6859.7	8603.4	12670.3	17576.5	17346.7	13249.8
65°	2922.8	2987.7	3642.2	4456.6	4746.3	4471.6	4416.6	6679.9	9817.4	9487.7	7119.5
67.5°	2138.4	2143.4	2722.9	3597.2	4016.9	3402.4	2762.9	3262.5	3887.0	3877.0	3297.5
70°	1413.9	1473.9	1918.5	2687.9	3167.6	2732.9	2258.3	2333.2	2473.1	2473.1	2453.1
72.5°	824.4	879.3	1174.1	1703.7	1778.6	1708.7	1788.6	1998.5	2088.4	2083.4	2058.4
75°	469.6	494.6	559.6	709.5	884.3	1044.2	1314.0	1513.8	1603.8	1658.7	1593.8
77.5°	274.8	289.8	329.7	404.7	459.6	564.6	714.5	854.3	974.3	959.3	969.3
80°	144.9	144.9	184.9	239.8	319.8	399.7	474.6	554.6	619.5	634.5	649.5
82.5°	84.9	89.9	119.9	174.9	229.8	284.8	364.7	419.7	479.6	484.6	494.6
85°	45.0	50.0	74.9	114.9	154.9	174.9	179.9	169.9	184.9	174.9	199.8
87.5°	15.0	15.0	25.0	20.0	20.0	25.0	30.0	30.0	40.0	40.0	40.0
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°	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3	7374.3
2.5°	7414.3	7414.3	7329.4	7169.5	7144.5	7079.6	7019.6	7014.6	6969.6	6929.7	6909.7
5°	7554.2	7399.3	7274.4	7129.5	6959.6	6879.7	6789.8	6689.9	6649.9	6689.9	6684.9
7.5°	7714.1	7584.2	7209.5	6939.7	6744.8	6664.9	6564.9	6460.0	6470.0	6470.0	6400.1
10°	7868.9	7694.1	7094.5	6749.8	6465.0	6405.1	6350.1	6390.1	6440.0	6450.0	6405.1
12.5°	8128.7	7734.0	7039.6	6560.0	6380.1	6250.2	6285.2	6395.1	6500.0	6470.0	6505.0
15°	8323.6	7769.0	6789.8	6365.1	6140.3	6200.2	6325.1	6400.1	6574.9	6555.0	6589.9
17.5°	8513.4	7789.0	6545.0	6105.3	6010.4	6175.2	6270.2	6485.0	6540.0	6659.9	6704.8
20°	8903.1	7829.0	6295.2	5945.4	5915.4	6105.3	6270.2	6370.1	6490.0	6594.9	6594.9
22.5°	9103.0	7809.0	6130.3	5735.6	5830.5	5950.4	6100.3	6270.2	6270.2	6370.1	6375.1
25°	9352.8	7729.1	5870.5	5635.7	5705.6	5820.5	5990.4	5930.4	5995.4	5995.4	6075.3
27.5°	9637.6	7559.2	5645.7	5455.8	5595.7	5720.6	5745.6	5705.6	5630.7	5620.7	5590.7
30°	9867.4	7349.3	5480.8	5395.8	5510.8	5580.7	5500.8	5415.8	5285.9	5275.9	5206.0
32.5°	10182.2	7089.5	5275.9	5246.0	5375.9	5380.9	5355.9	5226.0	5036.1	4956.2	4876.2
35°	10711.8	6939.7	5121.1	5166.0	5206.0	5191.0	5146.0	5006.1	4816.3	4781.3	4751.3
37.5°	11101.5	6829.7	4961.2	5016.1	5051.1	5071.1	4936.2	4781.3	4786.3	4716.4	4696.4
40°	11541.1	6759.8	4831.3	4856.3	4861.3	4926.2	4761.3	4686.4	4721.4	4676.4	4706.4
42.5°	12105.7	6779.8	4696.4	4676.4	4771.3	4746.3	4666.4	4566.5	4586.5	4451.6	4471.6
45°	12405.5	6914.7	4616.4	4526.5	4631.4	4626.4	4521.5	4426.6	4306.7	4046.9	4056.9
47.5°	12605.3	6949.7	4426.6	4366.6	4476.6	4541.5	4421.6	4201.8	4031.9	3847.0	3802.1
50°	12810.1	7014.6	4336.7	4211.8	4256.7	4411.6	4261.7	4051.9	3887.0	3722.1	3747.1
52.5°	12990.0	7139.5	4161.8	3976.9	4056.9	4226.7	4146.8	3892.0	3712.1	3577.2	3537.3
55°	13789.4	7419.3	3867.0	3627.2	3817.1	4031.9	3986.9	3677.2	3482.3	3412.4	3402.4
56°	13914.3	7429.3	3712.1	3507.3	3682.2	3966.9	3912.0	3582.2	3407.4	3297.5	3302.5
57.5°	13934.3	7309.4	3492.3	3397.4	3547.3	3872.0	3802.1	3507.3	3267.5	3167.6	3137.6
60°	12260.6	5705.6	3217.5	3157.6	3332.4	3582.2	3557.3	3302.5	3032.7	2917.8	2972.7
62.5°	8358.6	4181.8	3002.7	2992.7	3082.6	3327.4	3262.5	3032.7	2807.8	2732.9	2697.9
65°	4866.3	3172.6	2792.9	2752.9	2827.8	2957.7	3002.7	2762.9	2528.1	2478.1	2463.1
67.5°	2872.8	2623.0	2523.1	2458.1	2433.1	2513.1	2548.0	2408.1	2173.3	2103.4	2163.3
70°	2403.2	2333.2	2338.2	2228.3	2168.3	2113.4	2083.4	1958.5	1763.6	1673.7	1648.7
72.5°	2073.4	2043.4	2023.4	1923.5	1868.6	1743.7	1613.8	1488.9	1344.0	1269.0	1274.0
75°	1583.8	1573.8	1583.8	1533.8	1438.9	1339.0	1219.1	1059.2	949.3	854.3	874.3
77.5°	944.3	974.3	989.2	969.3	929.3	839.4	764.4	659.5	554.6	479.6	469.6
80°	649.5	674.5	699.5	674.5	634.5	569.6	489.6	409.7	334.7	294.8	284.8
82.5°	494.6	519.6	534.6	509.6	459.6	389.7	334.7	279.8	219.8	179.9	169.9
85°	179.9	204.8	199.8	239.8	259.8	249.8	214.8	164.9	124.9	89.9	84.9
87.5°	50.0	45.0	50.0	50.0	50.0	45.0	40.0	40.0	40.0	25.0	20.0
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)