

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639178

Luminaire Tested: GWS-SA5B-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15887.3 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

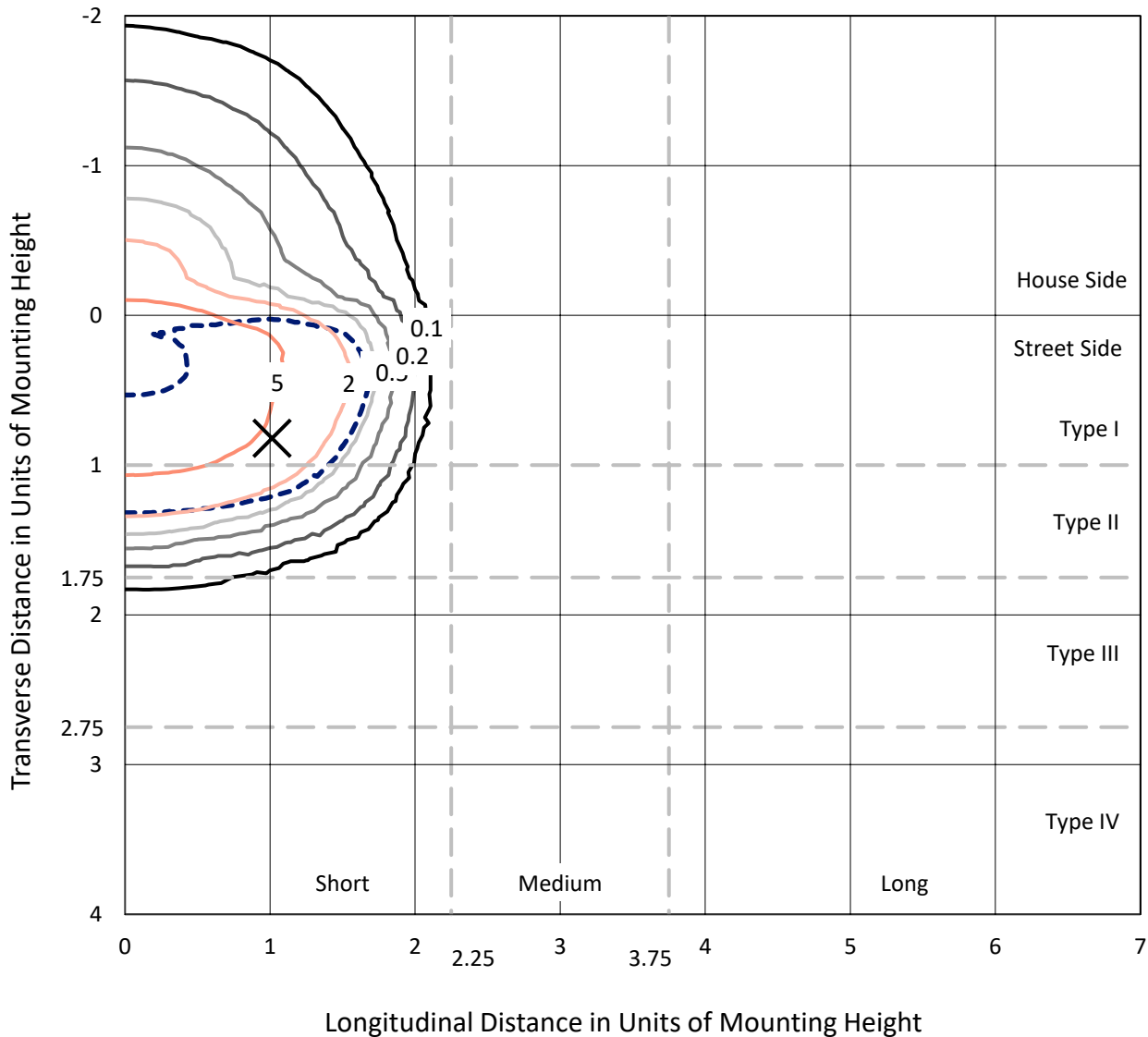
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

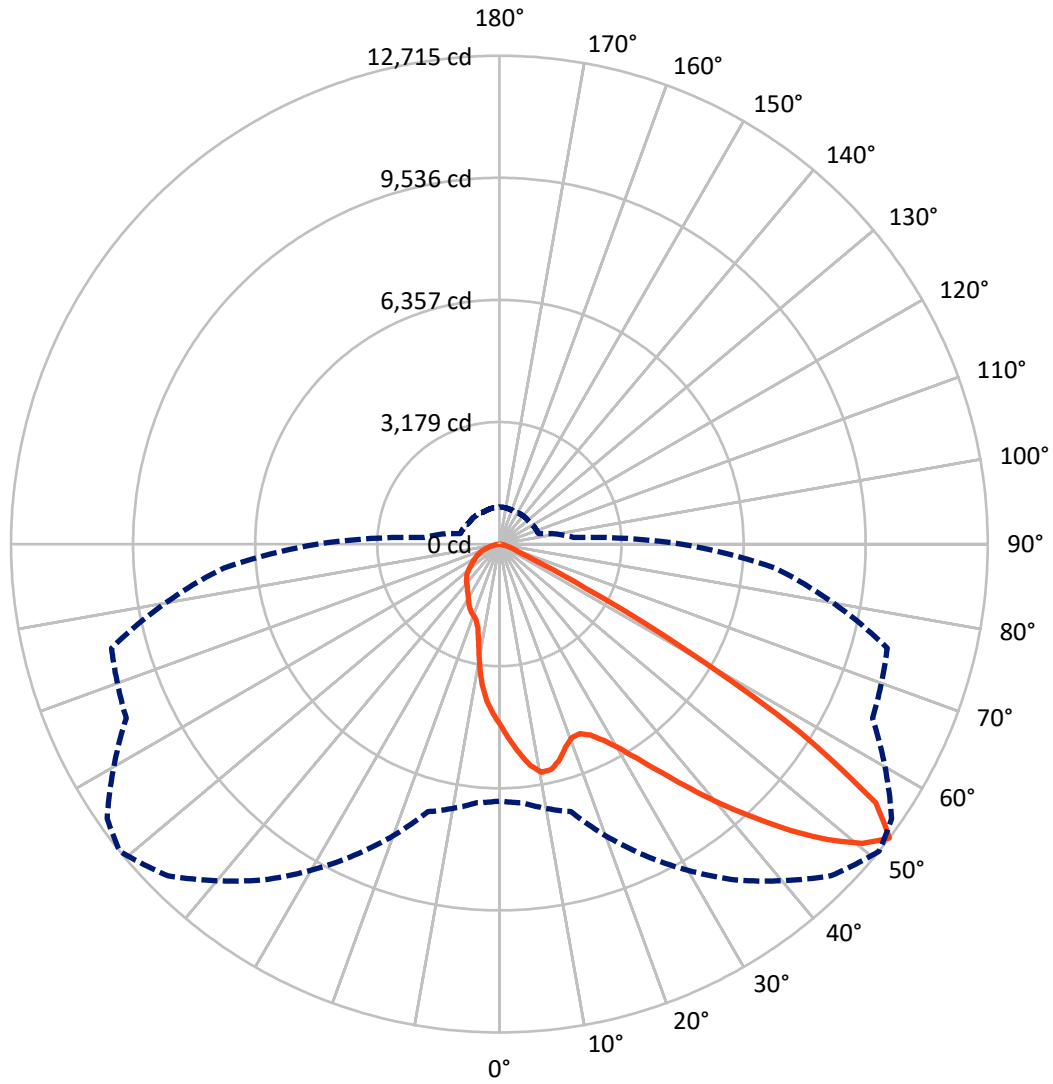
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical



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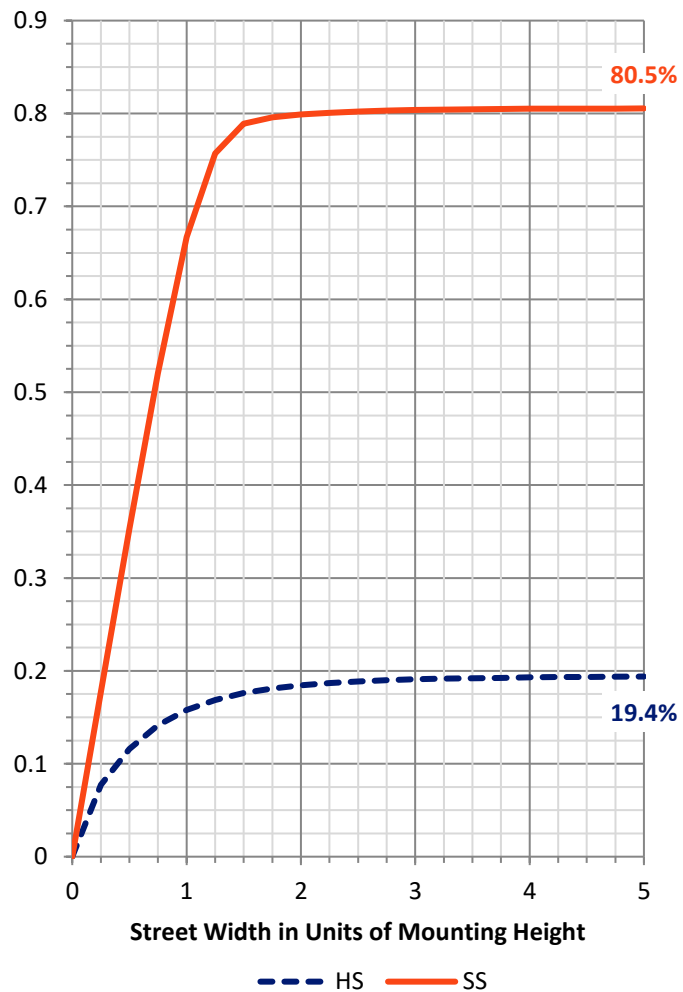
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3095.5	0.0	3095.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12791.8	0.0	12791.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	15887.3	0.0	15887.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	2.8
10°-20°	1147.0	7.2
20°-30°	1864.9	11.7
30°-40°	2955.4	18.6
40°-50°	4457.4	28.1
50°-60°	3856.0	24.3
60°-70°	874.2	5.5
70°-80°	257.8	1.6
80°-90°	33.2	0.2
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°	15887.3	100.0
0°-180°	15887.3	100.0

Coefficient of Utilization



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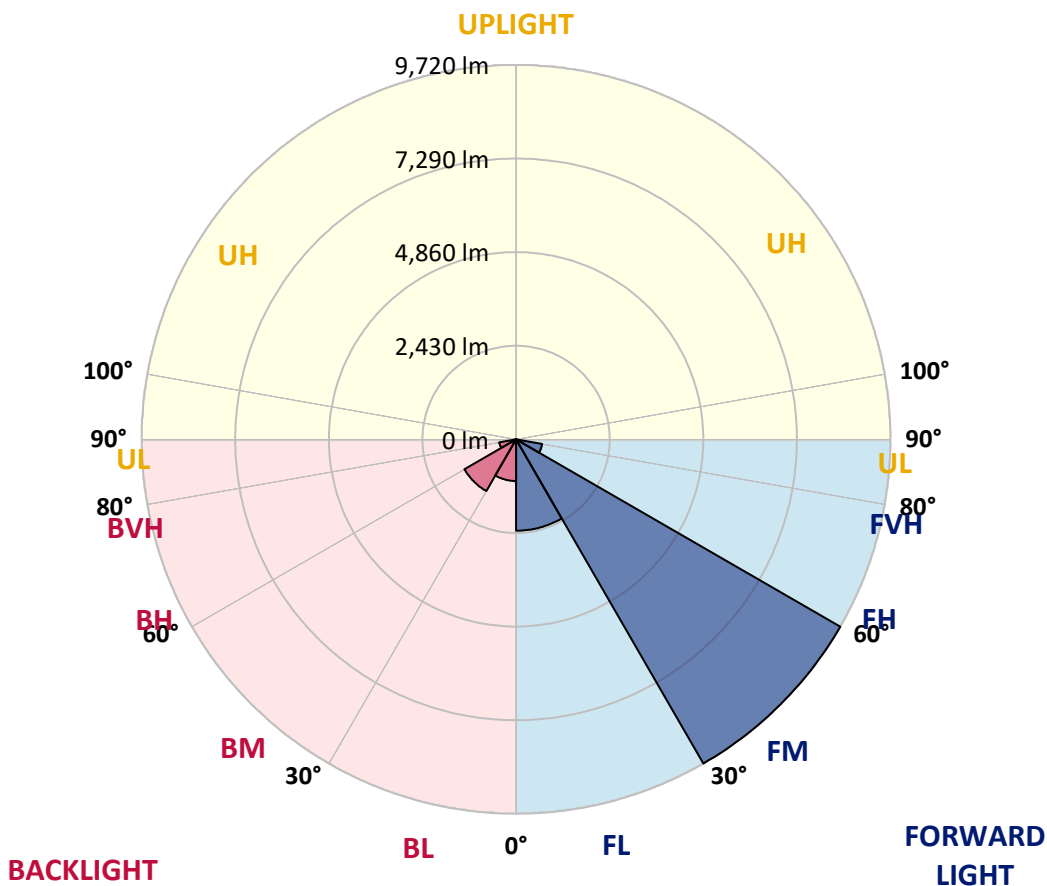
CATALOG NUMBER: GWS-SA5B-735-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2371.2	14.9			
FM (30°-60°)	9720.1	61.2			
FH (60°-80°)	688.0	4.3			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	1082.1	6.8	B3/2500		
BM (30°-60°)	1548.8	9.7	B2/2500		
BH (60°-80°)	444.0	2.8	B1/500		G1/500
BVH (80°-90°)	20.7	0.1			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°	51°	55°	65°	75°	85°
0°	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4
2.5°	5271.5	5301.7	5255.2	5237.6	5208.8	5158.5	5100.8	5084.5	4960.2	4878.6	4786.9
5°	5801.3	5817.6	5780.0	5742.3	5670.8	5581.6	5469.9	5446.0	5220.1	5033.0	4838.4
7.5°	5919.3	5913.1	5945.7	5967.0	5958.2	5923.1	5823.9	5777.5	5507.6	5211.3	4923.8
10°	5452.3	5417.2	5537.7	5680.8	5852.8	6051.1	6039.9	6036.1	5801.3	5451.1	5033.0
12.5°	4833.4	4815.8	4913.7	5093.3	5418.4	5857.8	6022.3	6150.3	6066.2	5679.5	5154.8
15°	4479.4	4473.1	4539.6	4668.9	4927.5	5482.4	5834.0	6087.6	6293.4	5924.4	5284.1
17.5°	4415.3	4419.1	4441.7	4515.8	4701.6	5158.5	5565.3	5919.3	6470.5	6193.0	5446.0
20°	4602.4	4627.5	4588.6	4599.9	4700.3	5041.8	5382.0	5749.8	6583.4	6462.9	5620.5
22.5°	5017.9	5009.1	4923.8	4873.6	4874.8	5113.3	5361.9	5670.8	6657.5	6725.3	5778.7
25°	5488.7	5478.7	5377.0	5265.3	5194.9	5307.9	5506.3	5754.9	6724.1	6965.1	5905.5
27.5°	6044.9	6013.5	5900.5	5757.4	5601.7	5650.7	5785.0	5982.1	6827.0	7201.1	5989.6
30°	6583.4	6619.9	6457.9	6288.4	6124.0	6093.8	6171.7	6349.9	7036.7	7477.3	6090.1
32.5°	7297.8	7285.2	7105.7	6884.8	6650.0	6627.4	6688.9	6852.1	7413.3	7859.0	6243.2
35°	8162.8	8165.3	7910.4	7611.6	7277.7	7217.4	7320.4	7478.6	7974.5	8376.2	6485.5
37.5°	9061.7	9057.9	8835.7	8496.7	8041.0	7955.6	8073.6	8191.6	8676.2	9080.5	6862.2
40°	9691.9	9717.0	9612.8	9434.5	9002.7	8794.3	8898.5	8980.1	9439.5	9909.1	7358.0
42.5°	10049.7	10087.3	10109.9	10216.6	9989.4	9767.2	9729.5	9772.2	10121.2	10678.6	7823.8
45°	10126.3	10176.5	10340.9	10736.4	10824.3	10761.5	10638.5	10535.5	10629.7	11224.8	8128.9
47.5°	9788.5	9876.4	10227.9	10919.7	11433.2	11630.3	11493.4	11336.5	10923.5	11365.4	8097.5
50°	8450.3	8553.2	9345.4	10545.6	11519.8	12237.9	12250.4	12018.2	10888.3	10959.9	7703.3
52.5°	6690.2	6760.5	7213.7	8939.9	10669.9	12212.8	12714.9	12466.4	10718.8	10452.7	7209.9
55°	3998.5	4111.5	4534.6	5898.0	8312.2	10824.3	11893.9	12014.4	10636.0	10027.1	6873.5
57.5°	1349.6	1404.8	1809.1	2605.0	4898.7	7925.5	9189.7	9679.3	9655.5	9376.8	6216.9
60°	642.8	655.3	736.9	988.0	1961.0	4141.6	5439.8	6004.7	6519.4	6570.9	3868.0
62.5°	489.6	497.1	538.6	592.6	788.4	1745.0	2493.3	2925.1	3124.8	2681.6	1408.6
65°	409.3	415.5	446.9	480.8	536.1	755.8	956.6	1103.5	994.3	774.6	671.7
67.5°	341.5	346.5	370.4	406.8	444.4	505.9	531.0	546.1	572.5	642.8	617.7
70°	267.4	272.4	297.5	328.9	365.3	380.4	404.2	419.3	472.0	562.4	559.9
72.5°	205.9	212.2	226.0	246.1	276.2	291.3	317.6	335.2	365.3	438.1	468.3
75°	150.7	154.4	167.0	173.2	177.0	173.2	199.6	219.7	259.9	287.5	295.0
77.5°	61.5	69.0	66.5	66.5	79.1	95.4	109.2	121.8	149.4	165.7	167.0
80°	25.1	27.6	32.6	36.4	43.9	56.5	65.3	70.3	82.9	92.9	100.4
82.5°	15.1	16.3	18.8	20.1	25.1	32.6	37.7	41.4	51.5	61.5	65.3
85°	7.5	7.5	8.8	10.0	12.6	15.1	17.6	20.1	26.4	32.6	36.4
87.5°	1.3	1.3	1.3	2.5	3.8	5.0	6.3	7.5	8.8	10.0	12.6
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°	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4	4730.4
2.5°	4733.0	4665.2	4586.1	4523.3	4450.5	4396.5	4319.9	4272.2	4227.0	4189.4	4161.7
5°	4738.0	4623.7	4459.3	4313.6	4163.0	4019.9	3873.0	3753.7	3647.0	3557.9	3550.3
7.5°	4766.8	4602.4	4345.0	4090.2	3796.4	3512.7	3229.0	2998.0	2822.2	2730.5	2711.7
10°	4815.8	4599.9	4228.3	3821.5	3320.6	2863.6	2527.2	2351.4	2249.7	2213.3	2200.8
12.5°	4867.3	4593.6	4078.9	3442.4	2746.9	2346.4	2161.8	2140.5	2159.3	2161.8	2160.6
15°	4930.1	4589.8	3890.6	2998.0	2327.6	2106.6	2119.2	2164.4	2208.3	2218.3	2218.3
17.5°	5006.6	4581.0	3634.5	2563.6	2065.2	2060.2	2126.7	2187.0	2228.4	2235.9	2235.9
20°	5087.0	4558.4	3319.3	2209.5	1958.5	2031.3	2102.8	2149.3	2178.2	2188.2	2189.5
22.5°	5142.2	4498.2	2956.5	1947.2	1891.9	1976.0	2027.5	2075.2	2075.2	2050.1	2042.6
25°	5153.5	4368.9	2563.6	1767.6	1812.8	1890.7	1943.4	1915.8	1864.3	1844.2	1843.0
27.5°	5112.1	4180.6	2175.7	1639.6	1717.4	1795.3	1786.5	1746.3	1723.7	1703.6	1711.1
30°	5061.9	3954.6	1839.2	1534.1	1606.9	1683.5	1653.4	1639.6	1623.3	1600.7	1605.7
32.5°	5028.0	3702.2	1580.6	1452.5	1532.9	1545.4	1566.8	1565.5	1550.5	1507.8	1505.3
35°	5038.0	3447.4	1407.3	1386.0	1471.4	1466.3	1506.5	1499.0	1394.8	1335.8	1332.0
37.5°	5118.4	3202.6	1305.6	1333.3	1373.4	1404.8	1440.0	1349.6	1313.2	1275.5	1278.0
40°	5271.5	2975.4	1250.4	1304.4	1314.4	1360.9	1279.3	1278.0	1261.7	1227.8	1226.6
42.5°	5444.8	2783.3	1212.7	1290.6	1276.8	1285.6	1198.9	1209.0	1207.7	1186.4	1180.1
45°	5550.2	2606.3	1182.6	1239.1	1242.9	1155.0	1128.6	1139.9	1146.2	1134.9	1133.6
47.5°	5441.0	2402.9	1151.2	1160.0	1192.7	1096.0	1063.3	1064.6	1075.9	1077.2	1072.1
50°	5134.7	2175.7	1113.6	1092.2	1070.9	1034.5	1004.3	998.1	1009.4	1020.7	1024.4
52.5°	4739.2	1958.5	1050.8	1018.1	967.9	967.9	954.1	934.0	949.1	964.2	969.2
55°	4449.2	1797.8	961.7	925.2	870.0	888.8	886.3	868.8	888.8	900.1	903.9
57.5°	3855.4	1445.0	846.2	834.9	788.4	811.0	816.0	793.4	783.4	785.9	789.7
60°	2288.6	932.8	763.3	762.0	720.6	747.0	762.0	739.4	709.3	713.1	718.1
62.5°	1026.9	713.1	659.1	654.1	652.8	686.7	703.0	681.7	639.0	642.8	647.8
65°	646.5	616.4	572.5	572.5	592.6	621.4	634.0	616.4	567.5	561.2	566.2
67.5°	600.1	573.7	528.5	519.7	529.8	553.6	554.9	521.0	492.1	487.1	487.1
70°	538.6	518.5	474.6	457.0	453.2	452.0	448.2	439.4	420.6	415.5	418.1
72.5°	445.7	431.9	404.2	385.4	375.4	374.1	359.1	351.5	335.2	332.7	331.4
75°	295.0	298.8	298.8	296.3	287.5	283.7	267.4	259.9	241.0	233.5	232.3
77.5°	174.5	178.3	183.3	184.5	183.3	183.3	168.2	159.4	140.6	130.6	128.1
80°	106.7	109.2	111.7	115.5	110.5	106.7	92.9	84.1	75.3	69.0	67.8
82.5°	69.0	71.6	72.8	75.3	72.8	67.8	56.5	51.5	45.2	40.2	38.9
85°	38.9	40.2	42.7	42.7	38.9	35.2	28.9	25.1	21.3	18.8	18.8
87.5°	13.8	13.8	13.8	15.1	12.6	11.3	7.5	5.0	3.8	3.8	3.8
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)