

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: P640692

Luminaire Tested: GWS-SA5E-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24820.3 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

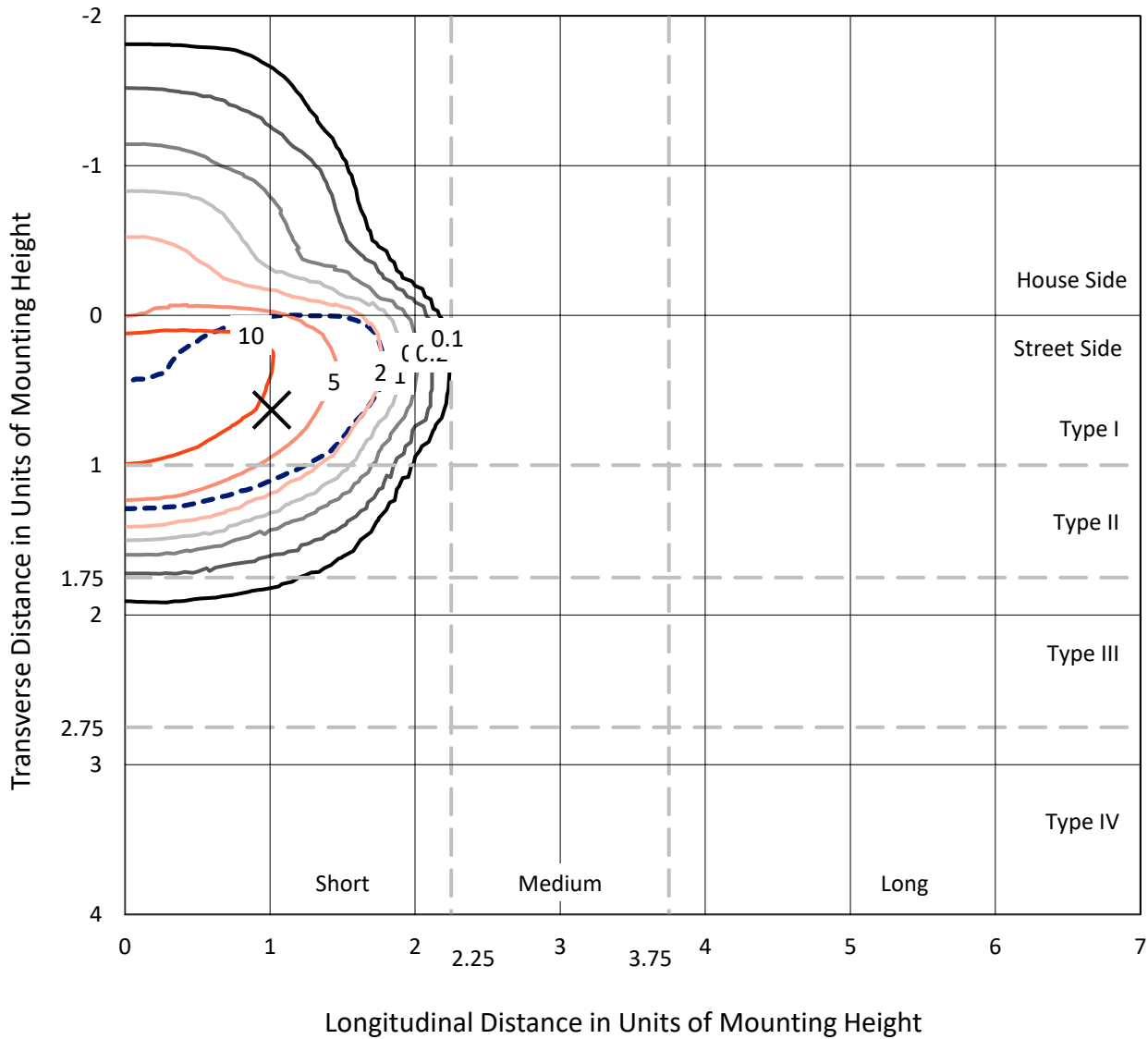
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

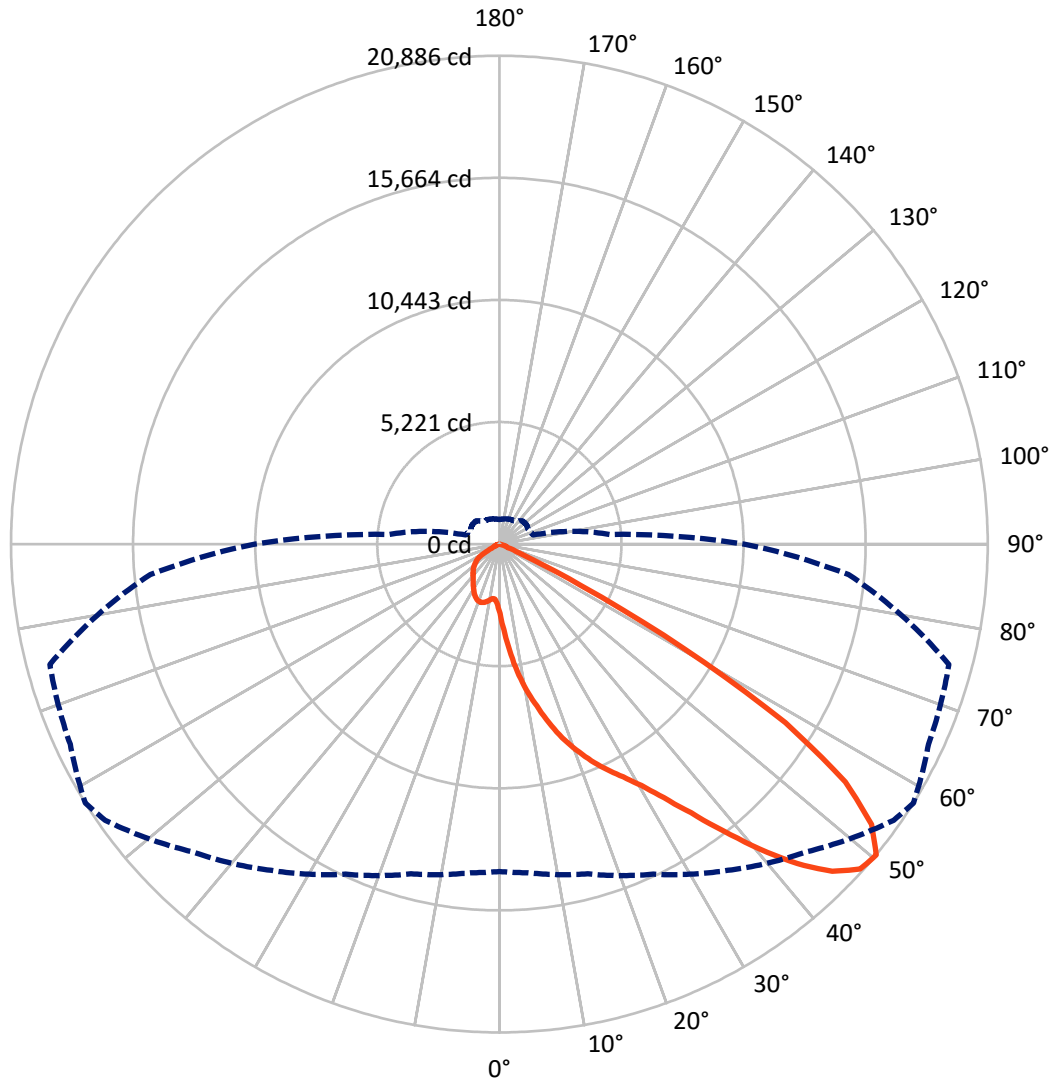
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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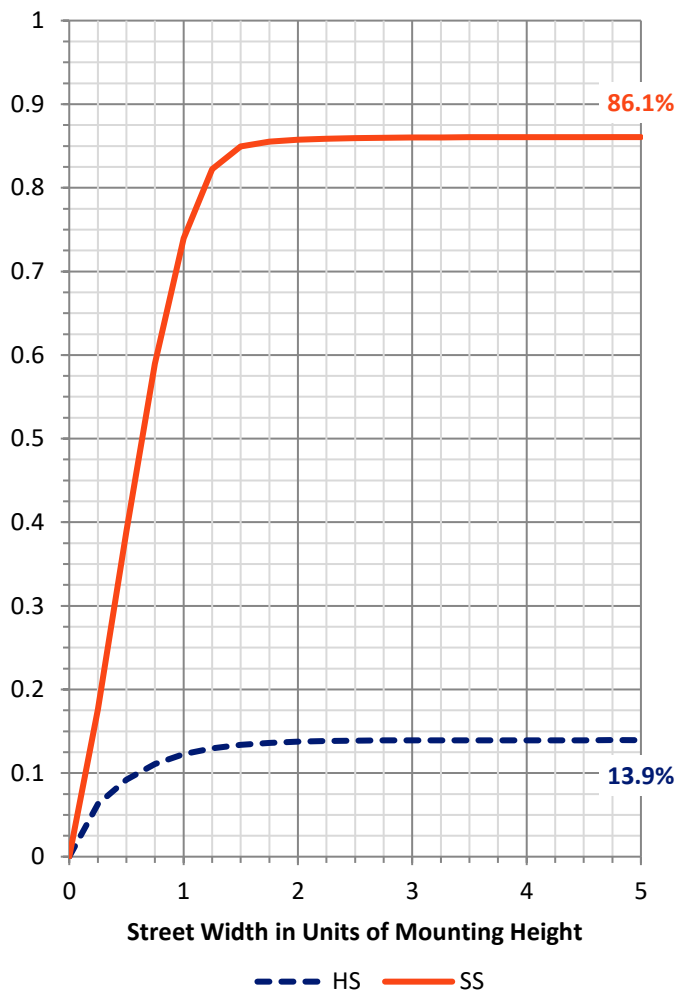
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3476.4	0.0	3476.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21343.9	0.0	21343.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	24820.3	0.0	24820.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.5
10°-20°	1454.0	5.9
20°-30°	2942.2	11.9
30°-40°	5205.1	21.0
40°-50°	7587.8	30.6
50°-60°	6081.9	24.5
60°-70°	1095.7	4.4
70°-80°	86.4	0.3
80°-90°	0.1	0.0
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°	24820.3	100.0
0°-180°	24820.3	100.0

Coefficient of Utilization



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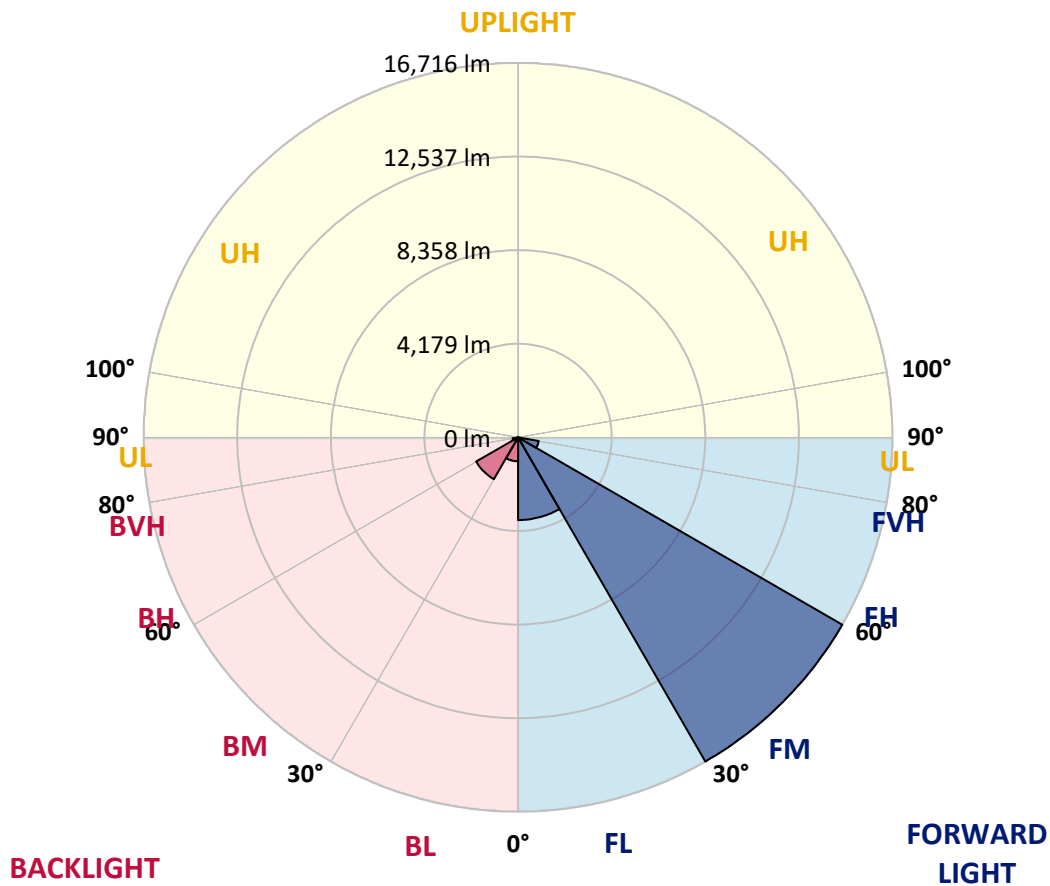
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3693.2	14.9			
FM (30°-60°)	16715.7	67.3			
FH (60°-80°)	935.0	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1070.3	4.3	B3/2500		
BM (30°-60°)	2159.0	8.7	B2/2500		
BH (60°-80°)	247.1	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
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°	55°	58°	65°	75°	85°
0°	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7
2.5°	4387.4	4318.4	4278.6	4246.7	4106.0	3883.1	3737.1	3660.1	3532.7	3317.8	3132.0
5°	5725.1	5674.7	5581.8	5518.1	5337.6	5021.7	4695.3	4565.2	4275.9	3790.2	3354.9
7.5°	6611.6	6574.5	6540.0	6455.0	6285.1	5998.5	5637.5	5502.2	5056.3	4366.2	3652.2
10°	7293.7	7264.5	7224.7	7222.1	7089.4	6831.9	6478.9	6338.2	5855.2	4992.6	4002.5
12.5°	7893.6	7869.7	7861.7	7936.1	7851.1	7660.0	7277.8	7102.6	6590.4	5632.2	4390.0
15°	8305.0	8299.7	8334.2	8480.2	8527.9	8440.4	8119.2	7930.8	7341.5	6274.5	4817.4
17.5°	8493.4	8509.4	8575.7	8827.9	9040.2	9114.5	8867.7	8708.4	8087.3	6924.8	5273.9
20°	8814.6	8809.3	8849.1	9088.0	9348.1	9613.5	9539.2	9403.8	8841.1	7612.2	5780.8
22.5°	9719.7	9642.7	9557.8	9594.9	9687.8	9998.4	10136.4	10067.4	9618.8	8318.3	6303.7
25°	11110.5	11030.9	10757.5	10492.1	10316.9	10457.6	10646.0	10680.5	10391.2	9042.9	6850.5
27.5°	12586.2	12514.6	12206.7	11808.5	11306.9	11062.7	11203.4	11272.4	11150.3	9905.5	7431.8
30°	13969.1	13873.5	13536.4	13042.7	12461.5	12087.2	11928.0	11975.8	12047.4	10927.3	8113.9
32.5°	15168.8	15097.1	14693.7	14173.4	13613.4	13223.2	12851.6	12931.3	13106.4	12177.5	8987.1
35°	16185.3	16148.2	15720.8	15203.3	14611.4	14412.3	14093.8	14109.7	14284.9	13687.7	10051.5
37.5°	17069.2	17005.5	16618.0	16137.5	15667.7	15635.9	15548.3	15556.3	15646.5	15447.4	11275.0
40°	17626.5	17568.2	17292.1	16994.8	16660.4	16665.7	17119.6	17154.1	17050.6	17175.3	12567.6
42.5°	17836.2	17793.8	17645.1	17647.8	17613.3	17769.9	18621.9	18685.6	18314.0	18531.6	13671.8
45°	17472.6	17454.0	17464.6	17846.8	18260.9	18744.0	19850.8	19962.2	19436.7	19431.4	14534.4
47.5°	16299.4	16262.3	16572.8	17223.1	18181.3	19120.9	20593.9	20766.5	20222.4	19946.3	15075.9
50°	14000.9	14107.1	14598.1	15574.8	17032.0	18603.3	20586.0	20885.9	20251.6	19901.2	14985.6
52.5°	10141.7	10120.5	11195.4	12538.4	14311.5	16947.1	19492.5	19930.4	19542.9	19457.9	14783.9
55°	5518.1	5711.8	6436.4	8214.8	10428.4	13812.5	16994.8	17950.4	18398.9	19296.0	15147.5
57.5°	2027.8	2112.7	2566.6	3824.7	5520.7	8589.0	12981.7	14422.9	15808.4	18844.8	15086.5
60°	817.5	833.4	1013.9	1406.7	2319.8	4371.5	7787.4	9066.7	10372.6	14425.6	11577.6
62.5°	594.5	615.8	687.4	822.8	1173.2	1911.0	3357.6	3904.3	4268.0	7145.1	5703.9
65°	480.4	496.3	554.7	615.8	775.0	1027.2	1082.9	1043.1	1037.8	1847.3	1308.5
67.5°	398.1	414.1	456.5	499.0	557.4	512.3	371.6	390.2	318.5	315.8	257.5
70°	292.0	310.5	353.0	398.1	334.4	138.0	215.0	318.5	241.5	201.7	196.4
72.5°	220.3	233.6	273.4	260.1	98.2	53.1	143.3	230.9	185.8	148.6	146.0
75°	164.6	172.5	138.0	42.5	10.6	13.3	53.1	95.6	103.5	84.9	84.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.0	10.6	13.3	15.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7
2.5°	3025.8	2914.3	2755.1	2622.4	2521.5	2423.3	2349.0	2274.7	2272.0	2234.8	2226.9
5°	3153.2	2951.5	2659.5	2449.8	2322.4	2245.5	2192.4	2165.8	2152.6	2139.3	2134.0
7.5°	3336.3	3047.0	2643.6	2420.6	2314.5	2264.0	2226.9	2210.9	2203.0	2192.4	2189.7
10°	3561.9	3185.0	2702.0	2476.4	2383.5	2335.7	2295.9	2272.0	2258.7	2240.1	2234.8
12.5°	3832.7	3354.9	2794.9	2569.3	2471.1	2407.4	2354.3	2319.8	2301.2	2277.3	2272.0
15°	4124.6	3538.0	2898.4	2654.2	2537.4	2455.1	2388.8	2335.7	2301.2	2272.0	2264.0
17.5°	4427.2	3723.8	2991.3	2712.6	2569.3	2471.1	2375.5	2303.8	2261.4	2224.2	2213.6
20°	4766.9	3914.9	3052.3	2723.2	2558.6	2428.6	2317.1	2226.9	2184.4	2134.0	2123.4
22.5°	5122.6	4092.8	3078.9	2699.3	2500.3	2349.0	2229.5	2136.6	2075.6	2022.5	2006.6
25°	5467.7	4252.0	3065.6	2633.0	2412.7	2237.5	2115.4	2019.8	1953.5	1900.4	1887.1
27.5°	5833.9	4384.7	3017.8	2534.8	2293.2	2115.4	1998.6	1916.3	1855.3	1796.9	1783.6
30°	6245.3	4506.8	2940.9	2415.3	2152.6	1990.7	1900.4	1844.7	1778.3	1717.3	1698.7
32.5°	6741.7	4615.7	2829.4	2272.0	2027.8	1881.8	1831.4	1788.9	1712.0	1648.3	1635.0
35°	7309.7	4705.9	2688.7	2123.4	1905.7	1812.8	1802.2	1746.5	1645.6	1571.3	1555.4
37.5°	7967.9	4793.5	2521.5	1977.4	1815.5	1781.0	1783.6	1688.1	1566.0	1475.7	1465.1
40°	8676.6	4881.1	2335.7	1850.0	1733.2	1762.4	1738.5	1603.1	1404.1	1316.5	1305.9
42.5°	9414.4	4976.6	2147.2	1730.5	1664.2	1690.7	1656.2	1433.3	1289.9	1244.8	1239.5
45°	10080.7	5090.8	1942.9	1611.1	1595.2	1587.2	1528.8	1297.9	1236.9	1205.0	1202.4
47.5°	10561.1	5072.2	1725.2	1497.0	1520.9	1494.3	1316.5	1234.2	1183.8	1141.3	1130.7
50°	10473.5	4748.4	1499.6	1369.6	1425.3	1401.4	1183.8	1159.9	1114.8	1069.6	1053.7
52.5°	10250.5	4307.8	1303.2	1234.2	1321.8	1266.1	1093.5	1069.6	1029.8	971.4	952.9
55°	10370.0	3893.7	1149.3	1125.4	1215.6	1048.4	992.7	955.5	913.0	849.3	841.4
57.5°	9985.1	3177.1	923.7	939.6	1075.0	894.5	870.6	812.2	740.5	698.1	692.7
60°	6911.5	1706.7	578.6	597.2	777.7	751.1	780.3	727.3	639.7	599.8	591.9
62.5°	3174.4	684.8	315.8	302.6	408.7	509.6	668.9	663.6	554.7	491.0	485.7
65°	769.7	313.2	225.6	212.3	230.9	305.2	435.3	522.9	448.6	374.2	366.3
67.5°	249.5	254.8	207.0	193.8	204.4	228.3	260.1	289.3	286.7	262.8	257.5
70°	199.1	230.9	191.1	175.2	175.2	183.1	175.2	140.7	122.1	132.7	138.0
72.5°	148.6	175.2	151.3	135.4	130.1	127.4	108.8	79.6	55.7	50.4	47.8
75°	87.6	98.2	92.9	79.6	74.3	66.4	53.1	34.5	18.6	13.3	8.0
77.5°	15.9	18.6	21.2	15.9	13.3	10.6	8.0	2.7	0.0	0.0	0.0
80°	0.0	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)