

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: P640122

Luminaire Tested: GWS-SA5D-730-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

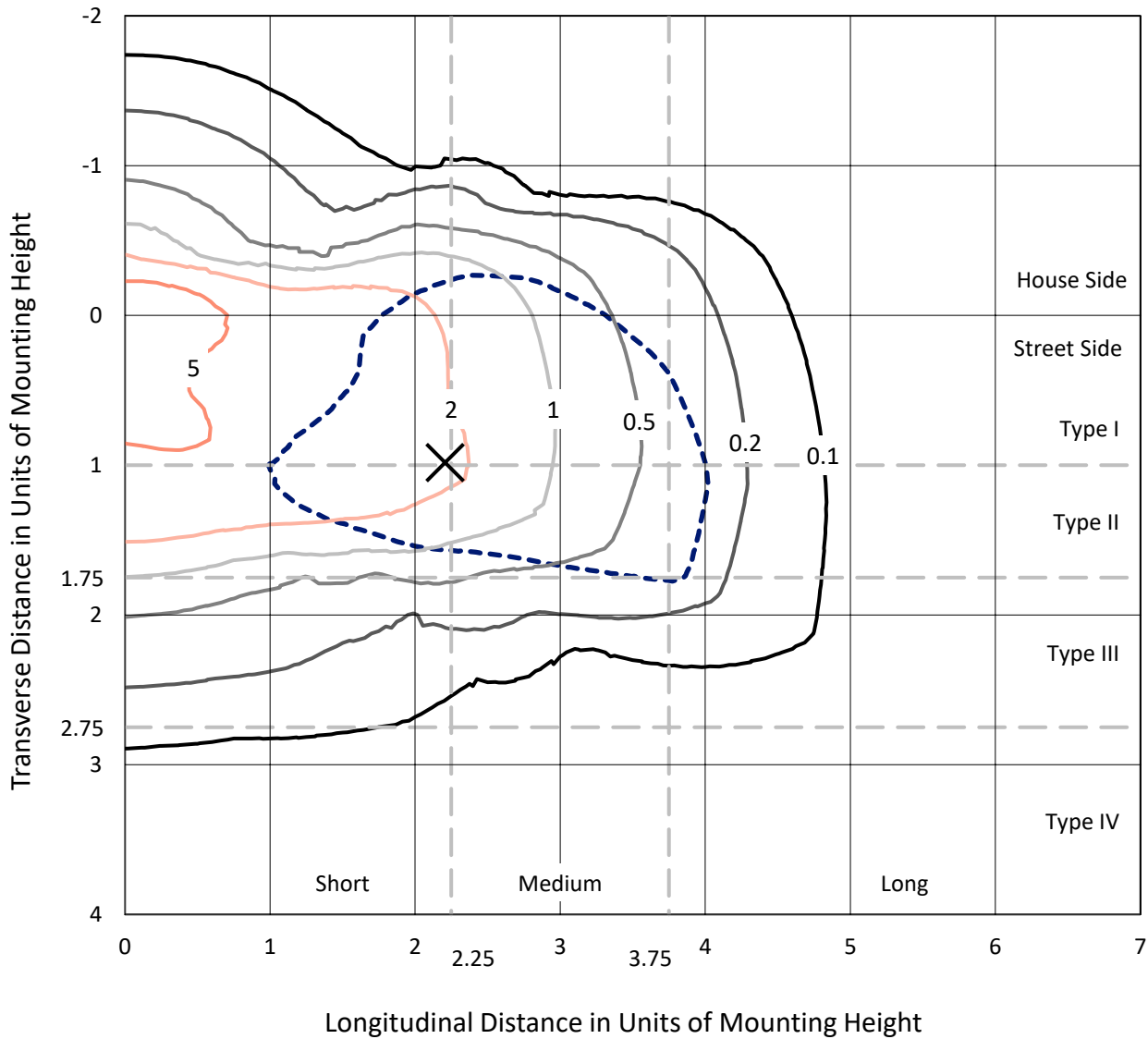
Lumens per Lamp: N/A  
Luminaire Lumens: 26882.1 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

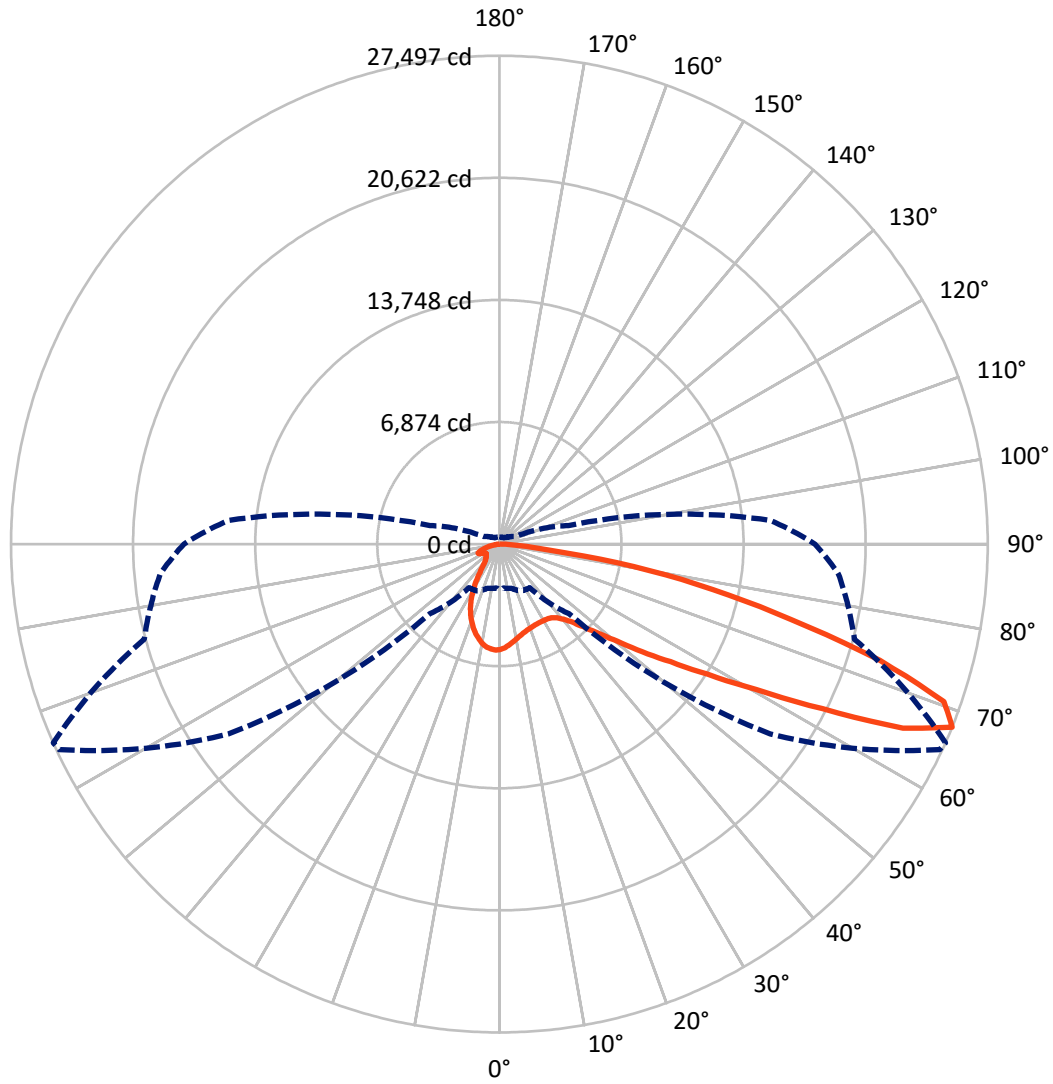
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWS-SA5D-730-U-SL2-W

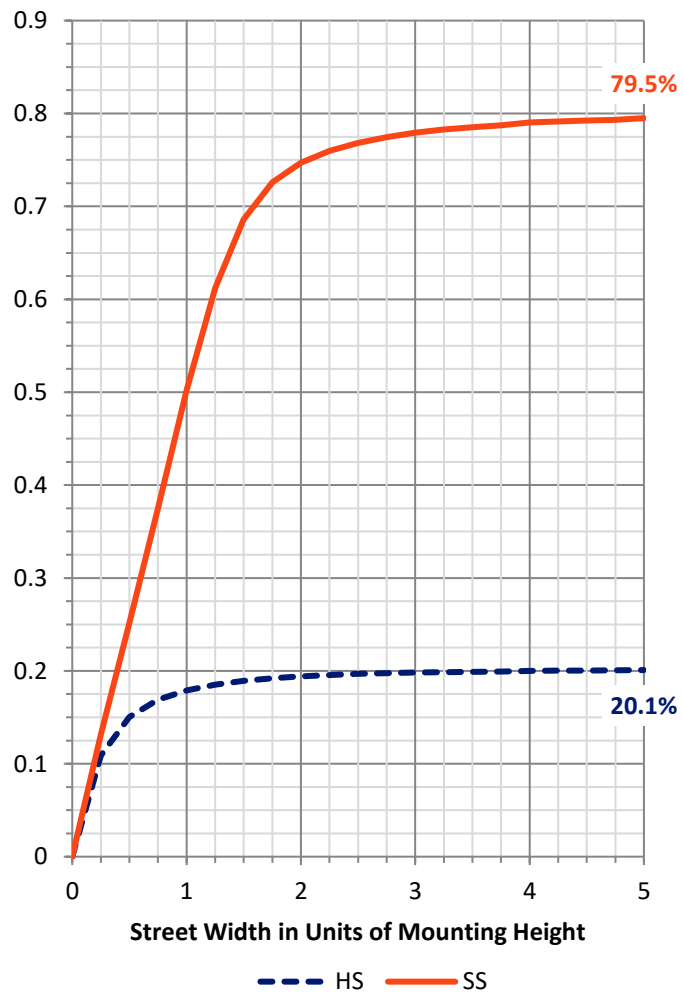
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5455.0	0.0	5455.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	21427.1	0.0	21427.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	26882.1	0.0	26882.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.3	1.9
10°-20°	1281.2	4.8
20°-30°	1761.1	6.6
30°-40°	2407.7	9.0
40°-50°	3648.3	13.6
50°-60°	5671.3	21.1
60°-70°	6904.7	25.7
70°-80°	4206.0	15.6
80°-90°	480.4	1.8
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°	26882.1	100.0
0°-180°	26882.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640122

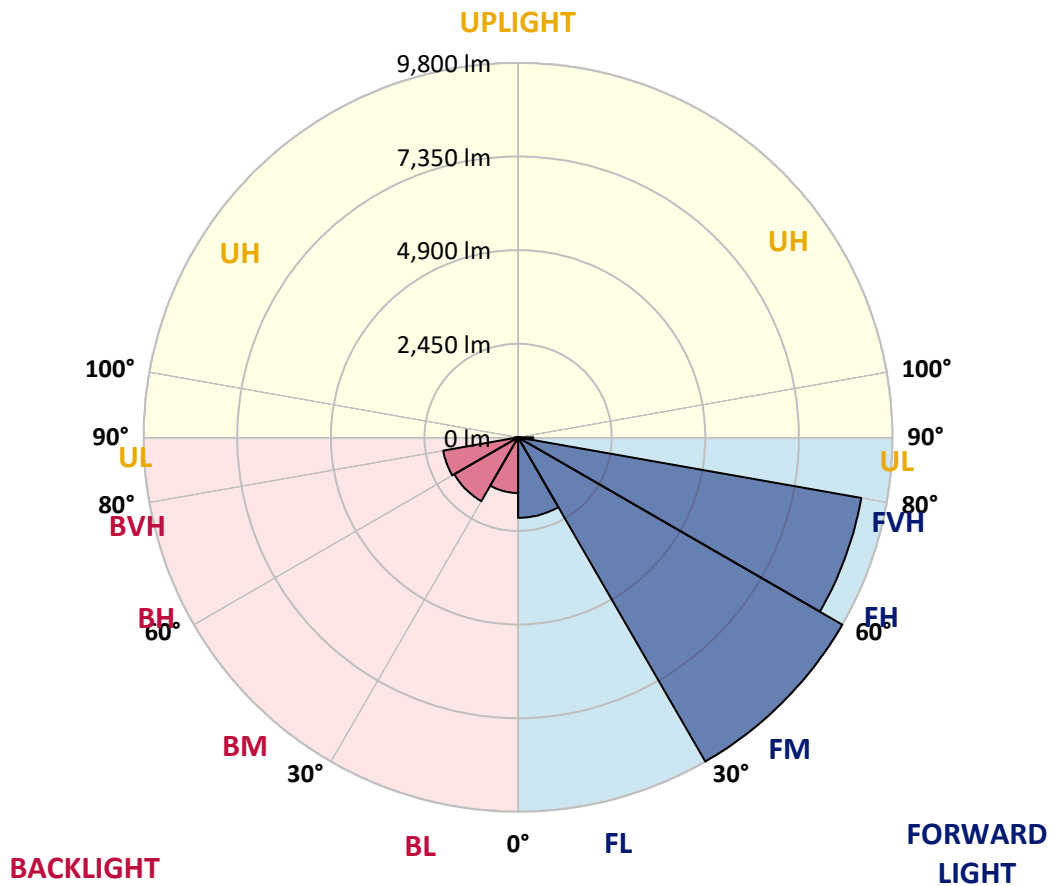
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.3	7.8			
FM (30°-60°)	9799.5	36.5			
FH (60°-80°)	9121.8	33.9			G4/12000
FVH (80°-90°)	399.4	1.5			G3/500
BL (0°-30°)	1457.3	5.4	B3/2500		
BM (30°-60°)	1927.7	7.2	B2/2500		
BH (60°-80°)	1989.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	81.0	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2
2.5°	5563.6	5583.3	5571.5	5646.0	5649.9	5744.1	5797.0	5842.1	5846.0	5904.9	5944.1
5°	5183.2	5195.0	5195.0	5265.6	5312.6	5438.1	5559.7	5689.2	5699.0	5840.2	5948.0
7.5°	4875.3	4887.1	4879.2	4973.4	5034.2	5173.4	5328.3	5526.4	5546.0	5773.5	5961.8
10°	4634.1	4630.2	4649.8	4736.1	4814.5	4981.2	5153.8	5379.3	5408.7	5697.0	5977.4
12.5°	4469.4	4473.3	4485.0	4575.3	4659.6	4824.3	5002.8	5247.9	5279.3	5608.8	5969.6
15°	4390.9	4383.1	4392.9	4475.2	4555.6	4700.8	4885.1	5138.1	5169.5	5530.3	5971.6
17.5°	4373.3	4367.4	4365.4	4424.2	4485.0	4620.4	4796.9	5053.8	5087.1	5479.3	5983.3
20°	4428.2	4420.3	4398.8	4424.2	4449.7	4563.5	4734.1	4993.0	5030.2	5446.0	6006.9
22.5°	4579.2	4565.4	4532.1	4500.7	4467.4	4536.0	4694.9	4947.9	4985.1	5424.4	6030.4
25°	4808.6	4796.9	4761.6	4691.0	4569.4	4557.6	4687.0	4928.3	4965.5	5408.7	6040.2
27.5°	5124.4	5106.7	5071.4	4969.4	4771.4	4638.0	4716.5	4926.3	4961.6	5391.1	6030.4
30°	5498.9	5487.2	5467.6	5344.0	5079.3	4808.6	4783.1	4942.0	4969.4	5381.3	6010.8
32.5°	5879.4	5867.6	5883.3	5824.5	5498.9	5091.0	4928.3	4985.1	5004.7	5379.3	5993.1
35°	6214.7	6228.5	6342.2	6352.0	6032.4	5473.4	5157.7	5085.1	5089.1	5418.5	6001.0
37.5°	6565.8	6618.7	6767.8	6895.2	6628.5	5979.4	5498.9	5273.4	5269.5	5518.5	6050.0
40°	7030.6	7054.1	7244.3	7483.6	7316.9	6673.6	5983.3	5581.3	5553.8	5722.5	6181.4
42.5°	7483.6	7540.4	7844.4	8119.0	8064.1	7456.1	6593.2	6042.2	5993.1	6083.3	6452.0
45°	8060.1	8115.0	8456.3	8809.3	8909.3	8340.6	7373.7	6697.2	6648.1	6626.6	6948.2
47.5°	8636.7	8693.6	8999.5	9509.4	9860.4	9446.6	8389.6	7562.0	7481.6	7397.3	7697.3
50°	9025.0	9091.7	9383.9	9995.7	10819.4	10827.2	9593.7	8695.5	8593.6	8460.2	8752.4
52.5°	9011.3	9054.4	9332.9	10038.9	11509.7	12413.8	11205.7	10138.9	10056.5	9766.3	10021.2
55°	8303.3	8368.0	8648.5	9531.0	11584.2	13917.9	13574.8	11841.1	11694.1	11174.4	11454.8
57.5°	6881.5	6936.4	7218.8	8307.2	10923.3	14688.7	16583.1	14010.1	13808.1	12707.9	13031.5
60°	5195.0	5128.3	5261.6	6214.7	9342.7	14708.3	19238.4	16951.8	16614.5	14347.4	14618.1
62.5°	3898.7	3832.0	3861.4	4130.1	6334.4	13519.8	20752.4	20976.0	20419.0	16198.7	16145.8
65°	3080.9	3043.6	3128.0	3312.3	3692.8	10295.8	20764.2	25327.6	24976.6	18344.2	17712.7
67.5°	2510.2	2486.7	2573.0	2914.2	2994.6	5532.3	18618.7	27359.3	27496.6	20693.6	19165.9
70°	2021.9	1986.6	2121.9	2571.0	2784.8	3347.6	13337.5	26323.9	26545.5	22093.8	18756.0
72.5°	1396.3	1398.3	1466.9	2082.7	2688.7	2890.7	7544.4	21919.2	22399.7	20825.0	16489.0
75°	941.3	949.2	968.8	1374.7	2476.9	2804.4	4020.3	16594.9	16934.1	17212.6	13629.7
77.5°	568.7	572.6	617.7	831.5	1708.1	2618.1	2724.0	12029.4	12296.1	11346.9	8448.4
80°	329.5	343.2	384.4	557.0	1153.1	1967.0	2108.2	7375.7	7677.7	5044.0	2684.7
82.5°	145.1	154.9	209.8	323.6	672.7	1672.8	1645.4	2914.2	2871.1	1406.1	931.5
85°	25.5	31.4	45.1	102.0	247.1	882.5	1276.7	1286.5	1210.0	533.4	386.3
87.5°	0.0	0.0	0.0	0.0	0.0	5.9	192.2	345.2	343.2	151.0	133.4
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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 CATALOG NUMBER: GWS-SA5D-730-U-SL2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2	5940.2
2.5°	5969.6	5916.6	5963.7	5969.6	5959.8	5951.9	5893.1	5842.1	5836.2	5781.3	5781.3
5°	5991.2	5942.1	5965.7	5920.6	5850.0	5777.4	5651.9	5565.6	5526.4	5455.8	5455.8
7.5°	6020.6	5969.6	5942.1	5830.4	5665.6	5506.8	5304.8	5136.1	5067.5	4967.5	4963.6
10°	6048.0	5983.3	5889.2	5671.5	5408.7	5155.7	4861.6	4622.3	4459.5	4339.9	4339.9
12.5°	6046.1	5961.8	5775.4	5453.8	5091.0	4724.3	4332.1	3971.2	3755.5	3569.2	3557.4
15°	6042.2	5926.5	5630.3	5200.8	4720.4	4212.4	3679.0	3208.4	2888.7	2706.3	2690.6
17.5°	6038.2	5881.3	5467.6	4912.6	4269.3	3577.1	2873.0	2363.1	2096.4	1984.6	1988.6
20°	6038.2	5830.4	5293.0	4581.1	3749.6	2816.1	2108.2	1737.5	1670.9	1676.7	1682.6
22.5°	6020.6	5767.6	5098.9	4220.3	3171.1	2070.9	1555.2	1429.6	1464.9	1519.9	1527.7
25°	5979.4	5663.7	4873.3	3820.2	2482.8	1508.1	1268.8	1245.3	1310.0	1378.7	1398.3
27.5°	5914.7	5544.0	4620.4	3351.5	1827.7	1212.0	1115.9	1113.9	1164.9	1215.9	1233.5
30°	5846.0	5410.7	4353.6	2829.9	1323.7	1055.1	1017.8	1017.8	1043.3	1074.7	1070.8
32.5°	5765.6	5275.4	4067.3	2286.6	1078.6	966.8	955.1	949.2	953.1	964.9	964.9
35°	5697.0	5155.7	3773.2	1712.0	966.8	917.8	906.0	892.3	886.4	878.6	882.5
37.5°	5671.5	5061.6	3469.2	1290.4	911.9	882.5	862.9	843.3	829.5	825.6	823.7
40°	5712.7	5022.4	3165.2	1062.9	872.7	845.2	823.7	798.2	786.4	786.4	786.4
42.5°	5873.5	5051.8	2855.4	960.9	845.2	813.9	782.5	758.9	755.0	758.9	760.9
45°	6167.7	5165.5	2533.7	910.0	821.7	782.5	745.2	727.6	727.6	731.5	731.5
47.5°	6693.2	5463.6	2216.0	878.6	798.2	757.0	717.8	700.1	698.2	702.1	702.1
50°	7603.2	6001.0	1929.7	857.0	780.5	737.4	698.2	674.6	668.7	666.8	666.8
52.5°	8750.4	6932.5	1747.3	841.3	758.9	715.8	676.6	645.2	633.4	627.6	627.6
55°	10136.9	8173.9	1747.3	829.5	731.5	690.3	645.2	613.8	596.2	588.3	588.3
57.5°	11707.8	9619.2	2049.4	819.7	709.9	660.9	611.9	580.5	560.9	549.1	549.1
60°	13306.1	11146.9	2796.5	806.0	690.3	623.6	574.6	545.2	519.7	506.0	504.0
62.5°	14963.2	12829.5	3781.0	813.9	676.6	588.3	535.4	502.0	480.5	466.7	464.8
65°	16481.1	14431.8	4641.9	874.7	678.5	557.0	490.3	460.9	443.2	425.6	423.6
67.5°	17769.6	15316.2	4037.9	998.2	719.7	519.7	445.2	415.8	400.1	388.3	386.3
70°	16867.4	13967.0	2290.6	1074.7	776.6	480.5	394.2	374.6	358.9	351.0	349.1
72.5°	14423.9	11825.5	1531.6	949.2	708.0	429.5	347.1	331.4	319.7	309.9	307.9
75°	11684.3	9378.0	1170.8	778.6	551.1	349.1	298.1	286.3	274.6	264.7	262.8
77.5°	6912.9	5418.5	862.9	615.8	388.3	272.6	247.1	237.3	225.5	217.7	215.7
80°	2206.2	1882.7	547.1	423.6	256.9	209.8	190.2	182.4	170.6	160.8	158.8
82.5°	841.3	727.6	290.2	215.7	170.6	143.2	127.5	119.6	111.8	102.0	100.0
85°	372.6	349.1	160.8	115.7	92.2	70.6	62.8	58.8	49.0	41.2	39.2
87.5°	131.4	131.4	68.6	33.3	19.6	9.8	5.9	2.0	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)