

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: P640113

Luminaire Tested: GWS-SA5D-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640113  
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-SA5D-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

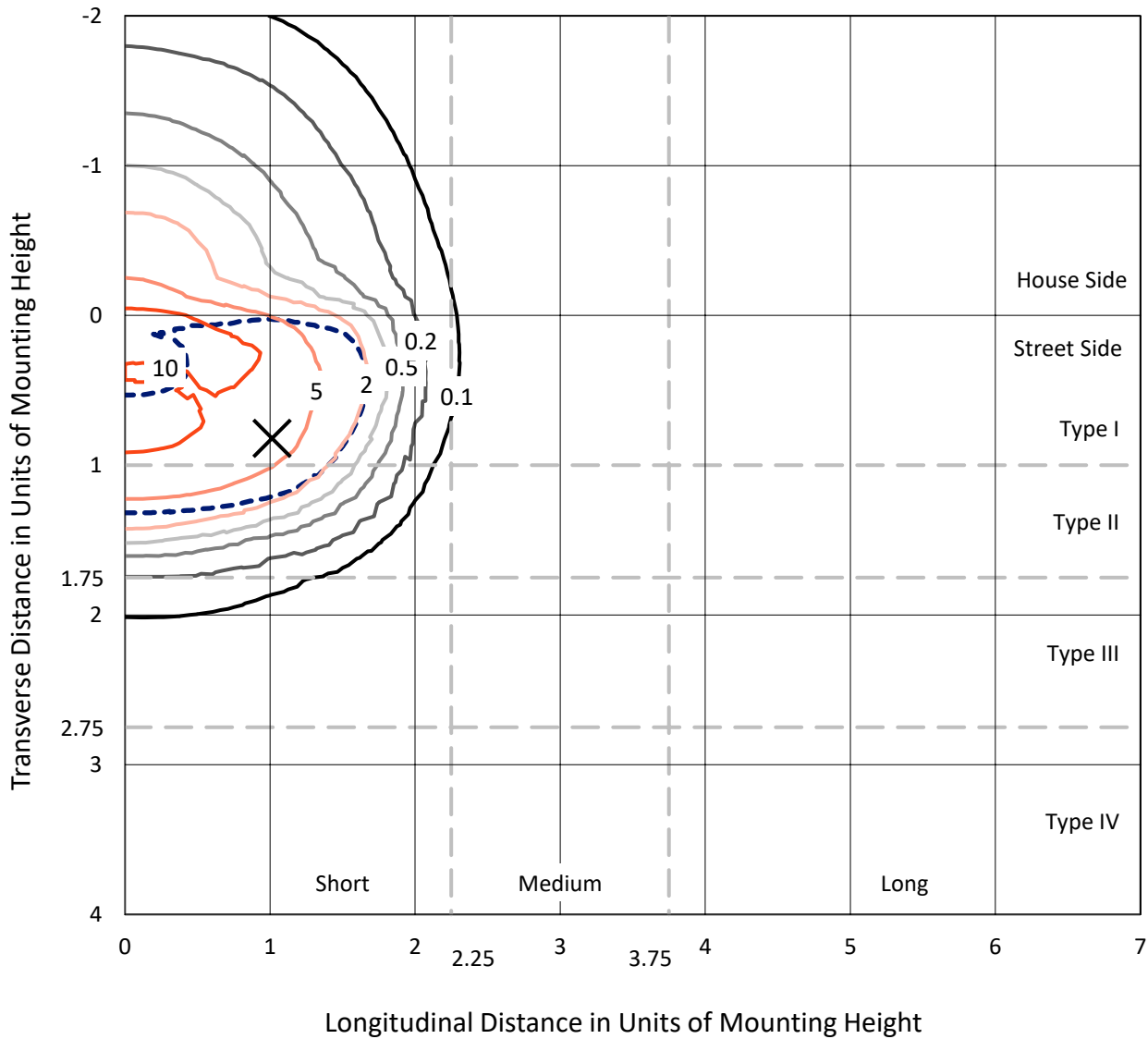
Lumens per Lamp: N/A  
Luminaire Lumens: 24817.1 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

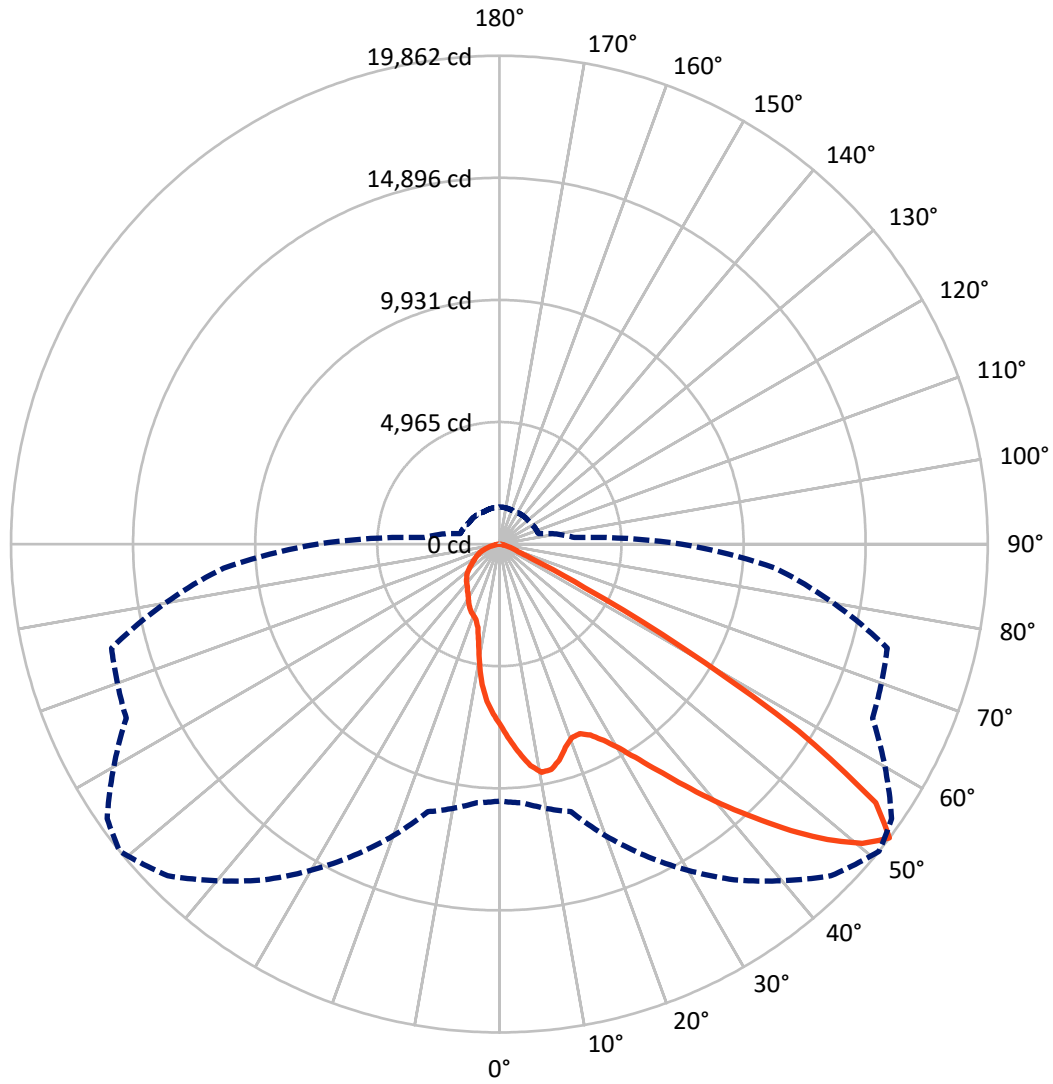
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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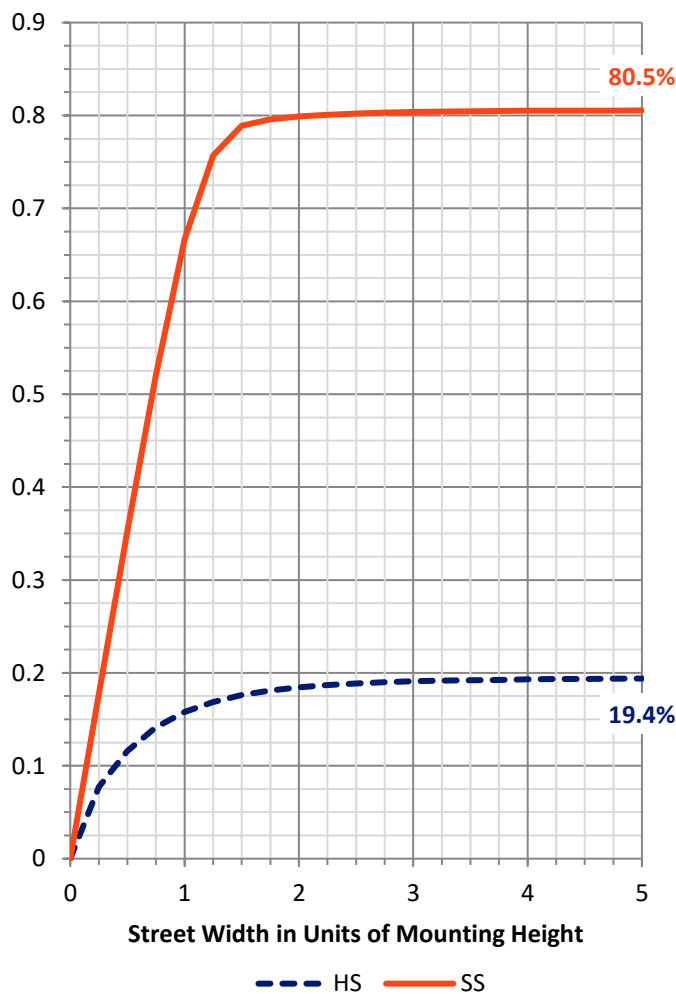
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4835.4	0.0	4835.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	19981.7	0.0	19981.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	24817.1	0.0	24817.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.5	2.8
10°-20°	1791.7	7.2
20°-30°	2913.1	11.7
30°-40°	4616.6	18.6
40°-50°	6962.8	28.1
50°-60°	6023.4	24.3
60°-70°	1365.6	5.5
70°-80°	402.6	1.6
80°-90°	51.9	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°	24817.1	100.0
0°-180°	24817.1	100.0

**Coefficient of Utilization**



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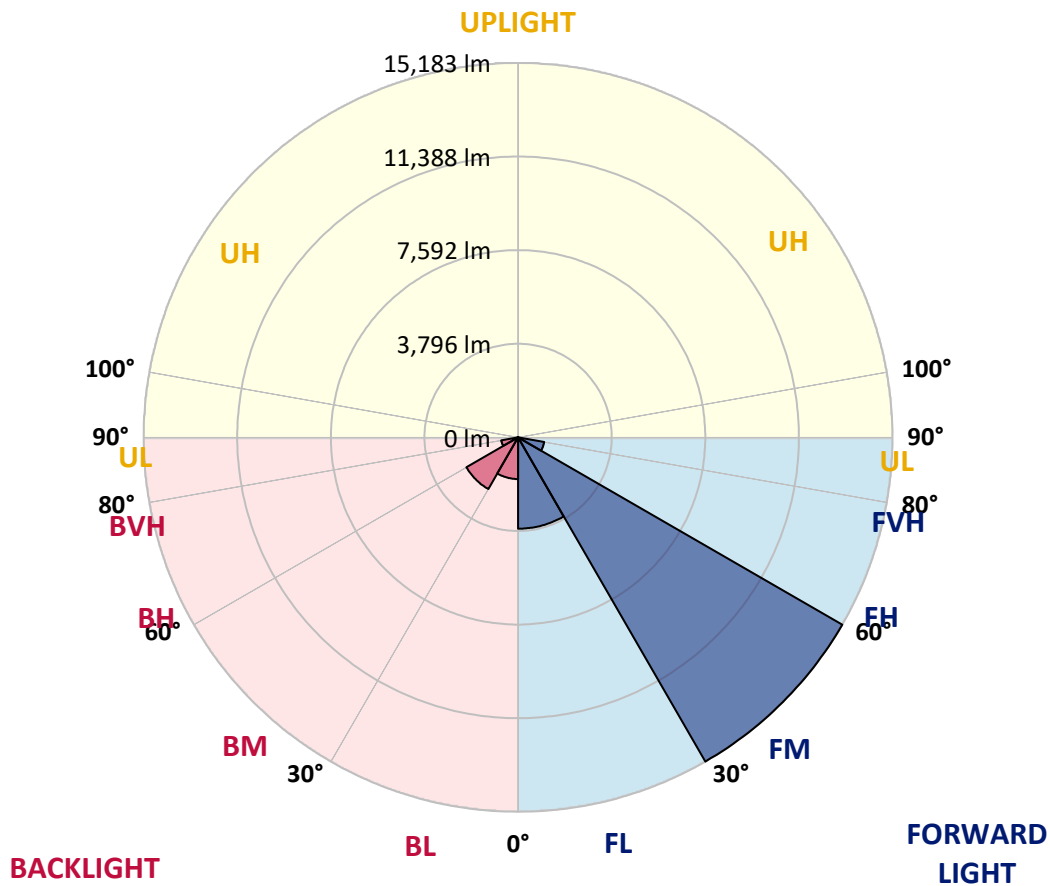
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3704.0	14.9			
FM (30°-60°)	15183.5	61.2			
FH (60°-80°)	1074.7	4.3			G1/1800
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	1690.3	6.8	B3/2500		
BM (30°-60°)	2419.3	9.7	B2/2500		
BH (60°-80°)	693.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	32.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3
2.5°	8234.5	8281.6	8209.0	8181.6	8136.5	8058.0	7967.8	7942.3	7748.2	7620.7	7477.5
5°	9062.1	9087.6	9028.7	8969.9	8858.1	8718.9	8544.4	8507.1	8154.1	7861.9	7557.9
7.5°	9246.4	9236.6	9287.6	9320.9	9307.2	9252.3	9097.4	9024.8	8603.2	8140.4	7691.3
10°	8516.9	8462.0	8650.3	8873.8	9142.5	9452.3	9434.7	9428.8	9062.1	8514.9	7861.9
12.5°	7550.1	7522.6	7675.6	7956.0	8464.0	9150.3	9407.2	9607.3	9475.9	8871.9	8052.1
15°	6997.1	6987.3	7091.2	7293.2	7697.2	8564.0	9113.1	9509.2	9830.8	9254.3	8254.1
17.5°	6897.1	6902.9	6938.2	7053.9	7344.2	8058.0	8693.4	9246.4	10107.3	9673.9	8507.1
20°	7189.3	7228.5	7167.7	7185.3	7342.2	7875.6	8407.1	8981.7	10283.8	10095.6	8779.7
22.5°	7838.4	7824.6	7691.3	7612.9	7614.8	7987.4	8375.7	8858.1	10399.5	10505.4	9026.8
25°	8573.8	8558.1	8399.2	8224.7	8114.9	8291.4	8601.2	8989.5	10503.5	10880.0	9224.8
27.5°	9442.5	9393.5	9217.0	8993.4	8750.3	8826.7	9036.6	9344.5	10664.3	11248.7	9356.2
30°	10283.8	10340.7	10087.7	9823.0	9566.1	9519.0	9640.6	9919.1	10991.8	11680.1	9513.1
32.5°	11399.7	11380.1	11099.6	10754.5	10387.8	10352.5	10448.5	10703.5	11580.1	12276.3	9752.4
35°	12750.8	12754.8	12356.7	11889.9	11368.3	11274.2	11435.0	11682.1	12456.7	13084.2	10130.9
37.5°	14155.0	14149.1	13802.0	13272.5	12560.6	12427.3	12611.6	12795.9	13552.9	14184.4	10719.2
40°	15139.4	15178.6	15015.9	14737.4	14062.8	13737.3	13900.0	14027.5	14745.2	15478.7	11493.8
42.5°	15698.3	15757.1	15792.4	15959.1	15604.2	15257.1	15198.2	15264.9	15810.1	16680.8	12221.4
45°	15817.9	15896.4	16153.3	16771.0	16908.3	16810.2	16618.1	16457.2	16604.3	17533.9	12697.9
47.5°	15290.4	15427.7	15976.8	17057.3	17859.4	18167.3	17953.5	17708.4	17063.2	17753.5	12648.9
50°	13199.9	13360.7	14598.2	16472.9	17994.7	19116.5	19136.1	18773.3	17008.3	17120.1	12033.1
52.5°	10450.5	10560.3	11268.3	13964.7	16667.1	19077.2	19861.7	19473.4	16743.6	16327.8	11262.4
55°	6246.0	6422.5	7083.4	9213.1	12984.2	16908.3	18579.1	18767.4	16614.1	15663.0	10736.8
57.5°	2108.1	2194.4	2825.9	4069.2	7652.1	12380.2	14355.0	15119.8	15082.5	14647.2	9711.2
60°	1004.1	1023.7	1151.1	1543.4	3063.2	6469.5	8497.3	9379.8	10183.8	10264.2	6042.0
62.5°	764.8	776.6	841.3	925.6	1231.5	2725.9	3894.7	4569.3	4881.1	4188.8	2200.3
65°	639.3	649.1	698.1	751.1	837.4	1180.6	1494.3	1723.8	1553.2	1210.0	1049.2
67.5°	533.4	541.3	578.5	635.4	694.2	790.3	829.5	853.1	894.2	1004.1	964.8
70°	417.7	425.6	464.8	513.8	570.7	594.2	631.5	655.0	737.4	878.6	874.6
72.5°	321.6	331.4	353.0	384.4	431.4	455.0	496.1	523.6	570.7	684.4	731.5
75°	235.3	241.2	260.8	270.6	276.5	270.6	311.8	343.2	405.9	449.1	460.9
77.5°	96.1	107.9	103.9	103.9	123.5	149.0	170.6	190.2	233.4	258.9	260.8
80°	39.2	43.1	51.0	56.9	68.6	88.2	102.0	109.8	129.4	145.1	156.9
82.5°	23.5	25.5	29.4	31.4	39.2	51.0	58.8	64.7	80.4	96.1	102.0
85°	11.8	11.8	13.7	15.7	19.6	23.5	27.5	31.4	41.2	51.0	56.9
87.5°	2.0	2.0	2.0	3.9	5.9	7.8	9.8	11.8	13.7	15.7	19.6
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°	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3	7389.3
2.5°	7393.2	7287.3	7163.8	7065.7	6952.0	6867.6	6748.0	6673.5	6602.9	6544.1	6500.9
5°	7401.1	7222.6	6965.7	6738.2	6502.9	6279.3	6049.9	5863.6	5696.9	5557.7	5545.9
7.5°	7446.2	7189.3	6787.2	6389.1	5930.3	5487.1	5043.9	4683.0	4408.5	4265.3	4235.9
10°	7522.6	7185.3	6604.9	5969.5	5187.0	4473.2	3947.6	3673.1	3514.2	3457.4	3437.7
12.5°	7603.0	7175.5	6371.5	5377.2	4290.8	3665.2	3377.0	3343.6	3373.0	3377.0	3375.0
15°	7701.1	7169.6	6077.3	4683.0	3635.8	3290.7	3310.3	3380.9	3449.5	3465.2	3465.2
17.5°	7820.7	7155.9	5677.3	4004.5	3226.0	3218.1	3322.0	3416.2	3480.9	3492.7	3492.7
20°	7946.2	7120.6	5185.1	3451.5	3059.3	3173.0	3284.8	3357.3	3402.4	3418.1	3420.1
22.5°	8032.5	7026.5	4618.3	3041.6	2955.3	3086.7	3167.1	3241.6	3241.6	3202.4	3190.7
25°	8050.2	6824.5	4004.5	2761.2	2831.8	2953.4	3035.7	2992.6	2912.2	2880.8	2878.8
27.5°	7985.5	6530.3	3398.5	2561.1	2682.7	2804.3	2790.6	2727.8	2692.5	2661.2	2672.9
30°	7907.0	6177.4	2873.0	2396.4	2510.2	2629.8	2582.7	2561.1	2535.7	2500.4	2508.2
32.5°	7854.1	5783.2	2469.0	2269.0	2394.5	2414.1	2447.4	2445.4	2421.9	2355.2	2351.3
35°	7869.7	5385.1	2198.4	2165.0	2298.4	2290.5	2353.3	2341.5	2178.7	2086.6	2080.7
37.5°	7995.3	5002.7	2039.5	2082.6	2145.4	2194.4	2249.3	2108.1	2051.3	1992.4	1996.4
40°	8234.5	4647.7	1953.2	2037.5	2053.2	2125.8	1998.3	1996.4	1970.9	1917.9	1916.0
42.5°	8505.1	4347.7	1894.4	2016.0	1994.4	2008.1	1872.8	1888.5	1886.5	1853.2	1843.4
45°	8669.9	4071.2	1847.3	1935.6	1941.5	1804.2	1763.0	1780.6	1790.5	1772.8	1770.8
47.5°	8499.3	3753.5	1798.3	1812.0	1863.0	1712.0	1661.0	1663.0	1680.6	1682.6	1674.7
50°	8020.8	3398.5	1739.5	1706.1	1672.8	1615.9	1568.9	1559.0	1576.7	1594.3	1600.2
52.5°	7403.0	3059.3	1641.4	1590.4	1512.0	1512.0	1490.4	1459.0	1482.6	1506.1	1513.9
55°	6950.0	2808.2	1502.2	1445.3	1359.0	1388.4	1384.5	1357.1	1388.4	1406.1	1412.0
57.5°	6022.4	2257.2	1321.8	1304.1	1231.5	1266.8	1274.7	1239.4	1223.7	1227.6	1233.5
60°	3575.0	1457.1	1192.3	1190.4	1125.7	1166.8	1190.4	1155.1	1108.0	1113.9	1121.7
62.5°	1604.2	1113.9	1029.6	1021.7	1019.8	1072.7	1098.2	1064.9	998.2	1004.1	1011.9
65°	1009.9	962.9	894.2	894.2	925.6	970.7	990.3	962.9	886.4	876.6	884.4
67.5°	937.4	896.2	825.6	811.9	827.6	864.8	866.8	813.8	768.7	760.9	760.9
70°	841.3	809.9	741.3	713.8	707.9	706.0	700.1	686.4	657.0	649.1	653.0
72.5°	696.2	674.6	631.5	602.0	586.4	584.4	560.9	549.1	523.6	519.7	517.7
75°	460.9	466.7	466.7	462.8	449.1	443.2	417.7	405.9	376.5	364.8	362.8
77.5°	272.6	278.5	286.3	288.3	286.3	286.3	262.8	249.1	219.6	204.0	200.0
80°	166.7	170.6	174.5	180.4	172.6	166.7	145.1	131.4	117.7	107.9	105.9
82.5°	107.9	111.8	113.7	117.7	113.7	105.9	88.2	80.4	70.6	62.8	60.8
85°	60.8	62.8	66.7	66.7	60.8	54.9	45.1	39.2	33.3	29.4	29.4
87.5°	21.6	21.6	21.6	23.5	19.6	17.6	11.8	7.8	5.9	5.9	5.9
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)