

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: P636703

Luminaire Tested: GWS-SA4B-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636703  
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-SA4B-735-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

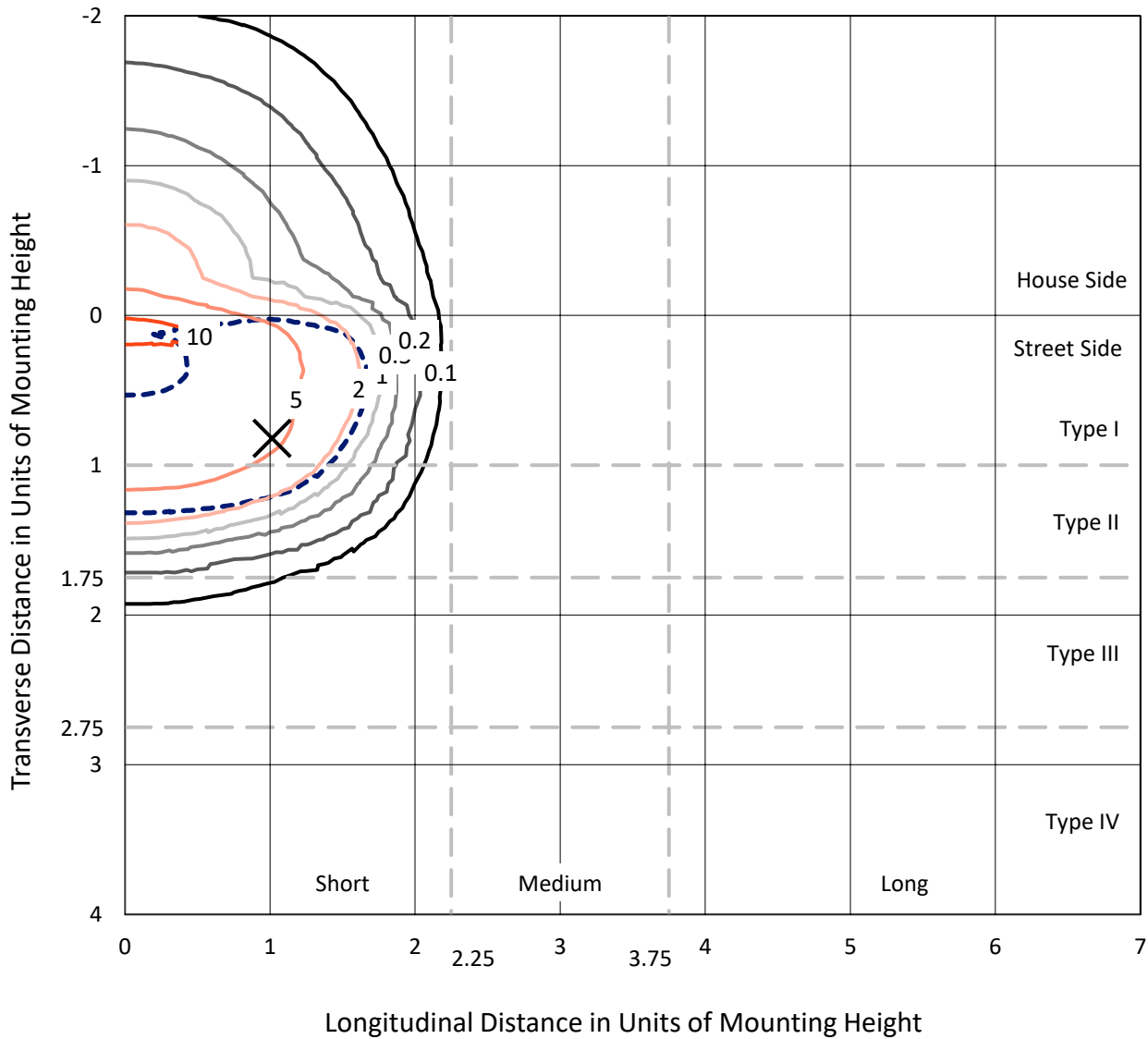
Lumens per Lamp: N/A  
Luminaire Lumens: 12951.1 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

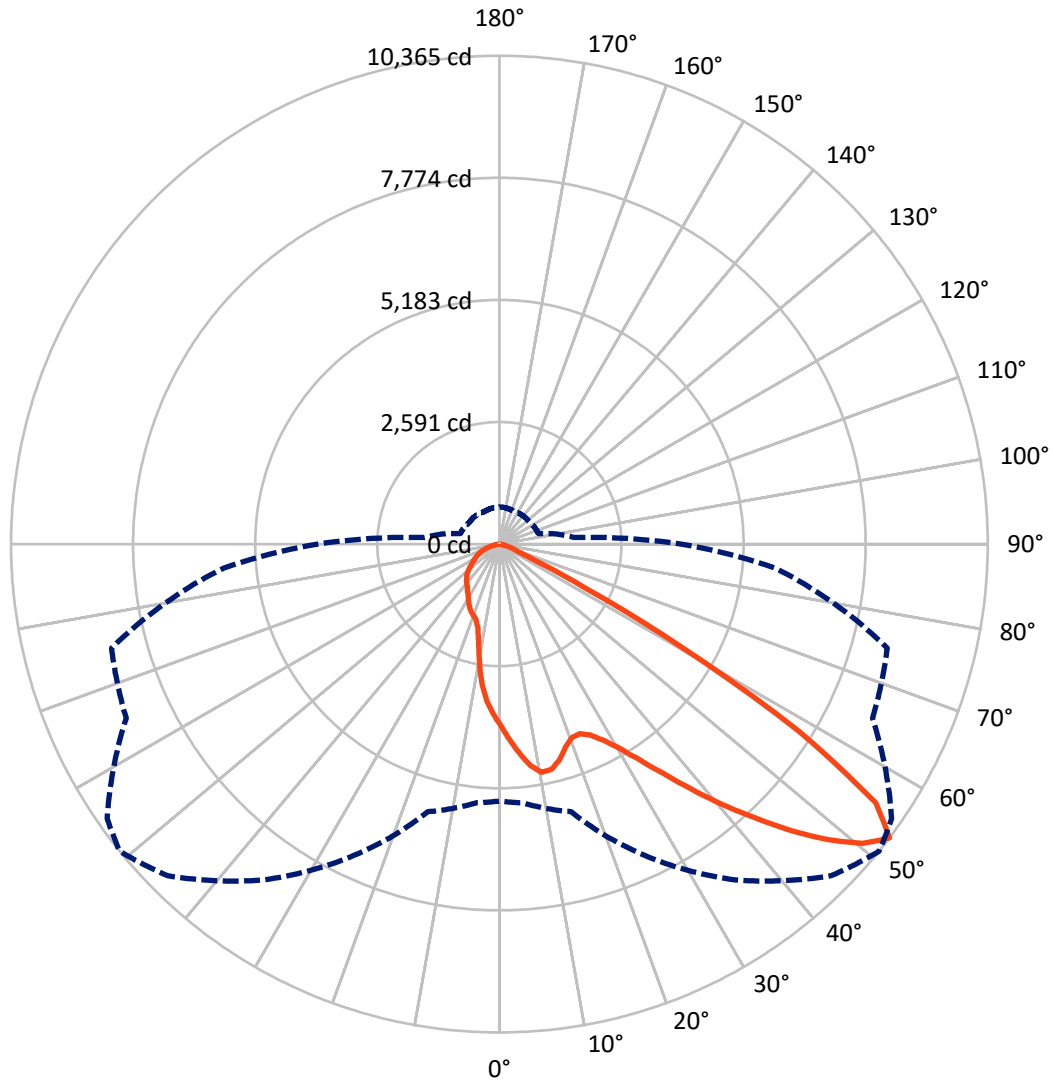
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.8 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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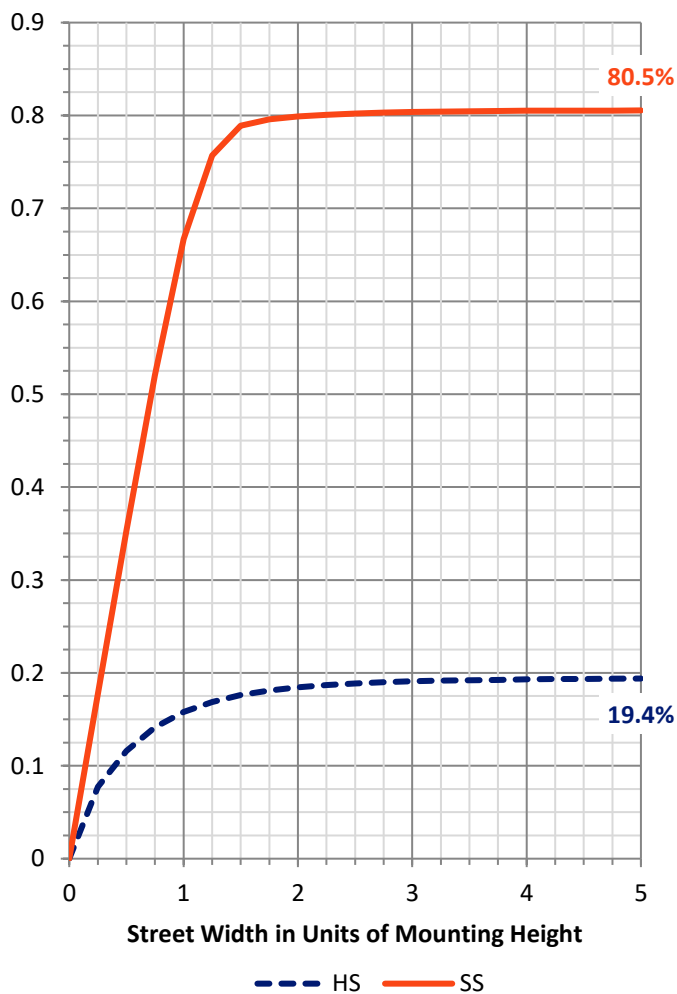
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2523.4	0.0	2523.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	10427.7	0.0	10427.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	12951.1	0.0	12951.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.8	2.8
10°-20°	935.0	7.2
20°-30°	1520.2	11.7
30°-40°	2409.2	18.6
40°-50°	3633.6	28.1
50°-60°	3143.4	24.3
60°-70°	712.6	5.5
70°-80°	210.1	1.6
80°-90°	27.1	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°	12951.1	100.0
0°-180°	12951.1	100.0

**Coefficient of Utilization**



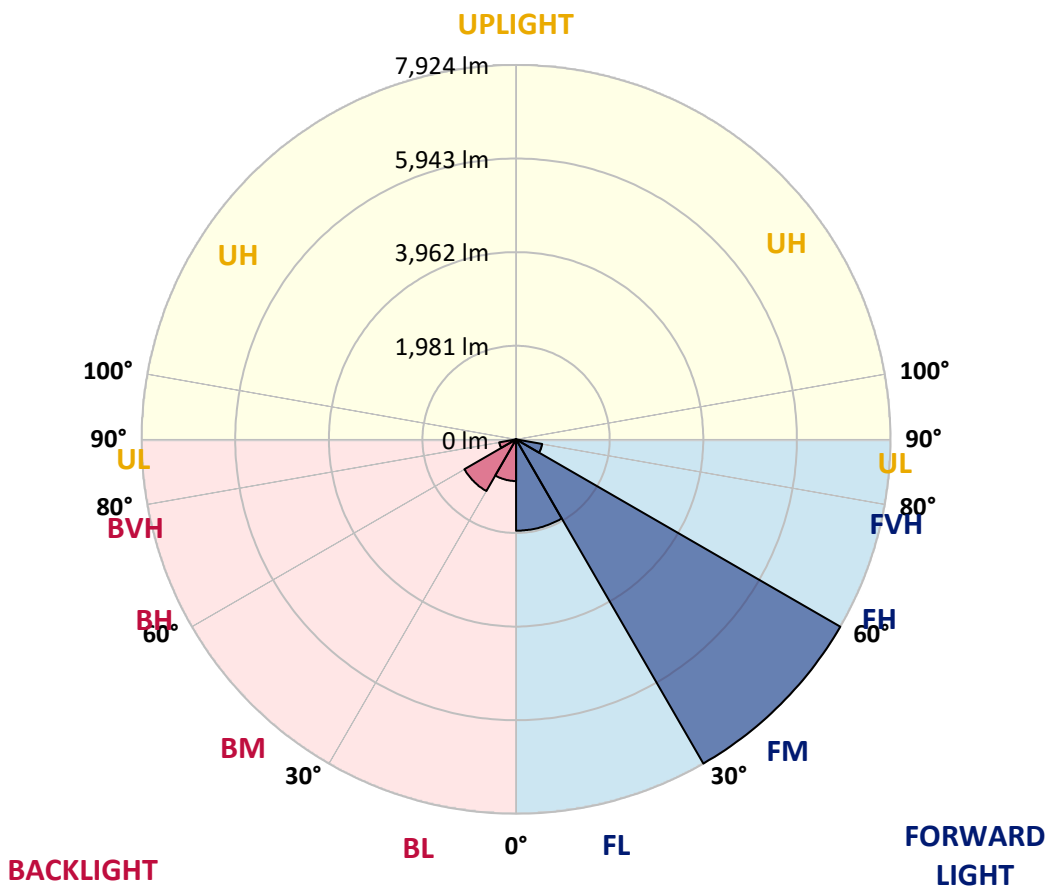
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.0	14.9			
FM (30°-60°)	7923.7	61.2			
FH (60°-80°)	560.8	4.3			G0/660
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	882.1	6.8	B2/1000		
BM (30°-60°)	1262.5	9.7	B2/2500		
BH (60°-80°)	361.9	2.8	B1/500		G1/500
BVH (80°-90°)	16.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2
2.5°	4297.3	4321.8	4284.0	4269.6	4246.1	4205.2	4158.1	4144.8	4043.5	3977.0	3902.2
5°	4729.2	4742.5	4711.8	4681.1	4622.7	4550.1	4459.0	4439.5	4255.3	4102.8	3944.2
7.5°	4825.4	4820.2	4846.8	4864.2	4857.1	4828.4	4747.6	4709.7	4489.7	4248.2	4013.8
10°	4444.6	4416.0	4514.2	4630.9	4771.1	4932.8	4923.6	4920.5	4729.2	4443.6	4102.8
12.5°	3940.1	3925.8	4005.6	4152.0	4417.0	4775.2	4909.3	5013.7	4945.1	4629.9	4202.1
15°	3651.5	3646.4	3700.6	3806.0	4016.9	4469.2	4755.8	4962.5	5130.3	4829.4	4307.5
17.5°	3599.3	3602.4	3620.8	3681.2	3832.7	4205.2	4536.8	4825.4	5274.6	5048.5	4439.5
20°	3751.8	3772.3	3740.5	3749.8	3831.6	4110.0	4387.3	4687.2	5366.7	5268.5	4581.8
22.5°	4090.5	4083.4	4013.8	3972.9	3973.9	4168.3	4371.0	4622.7	5427.1	5482.4	4710.7
25°	4474.3	4466.1	4383.2	4292.2	4234.8	4327.0	4488.7	4691.3	5481.4	5677.8	4814.1
27.5°	4927.7	4902.1	4810.0	4693.3	4566.4	4606.3	4715.8	4876.5	5565.3	5870.2	4882.7
30°	5366.7	5396.4	5264.4	5126.2	4992.2	4967.6	5031.1	5176.4	5736.2	6095.4	4964.5
32.5°	5949.1	5938.8	5792.5	5612.4	5421.0	5402.6	5452.7	5585.7	6043.2	6406.5	5089.4
35°	6654.2	6656.2	6448.5	6204.9	5932.7	5883.6	5967.5	6096.4	6500.7	6828.2	5286.9
37.5°	7386.9	7383.9	7202.7	6926.4	6554.9	6485.3	6581.5	6677.7	7072.7	7402.3	5593.9
40°	7900.7	7921.2	7836.2	7690.9	7338.8	7168.9	7253.9	7320.4	7695.0	8077.7	5998.2
42.5°	8192.4	8223.1	8241.5	8328.5	8143.2	7962.1	7931.4	7966.2	8250.7	8705.1	6377.9
45°	8254.8	8295.7	8429.8	8752.2	8823.8	8772.6	8672.3	8588.4	8665.2	9150.3	6626.5
47.5°	7979.5	8051.1	8337.7	8901.6	9320.1	9480.8	9369.3	9241.3	8904.6	9264.9	6601.0
50°	6888.5	6972.5	7618.2	8596.6	9390.8	9976.1	9986.4	9797.1	8876.0	8934.3	6279.6
52.5°	5453.7	5511.0	5880.5	7287.7	8697.9	9955.7	10365.0	10162.4	8737.8	8520.9	5877.4
55°	3259.5	3351.7	3696.5	4808.0	6776.0	8823.8	9695.7	9794.0	8670.3	8173.9	5603.1
57.5°	1100.2	1145.2	1474.7	2123.6	3993.3	6460.8	7491.3	7890.4	7871.0	7643.8	5067.9
60°	524.0	534.2	600.7	805.4	1598.6	3376.2	4434.4	4894.9	5314.5	5356.5	3153.1
62.5°	399.1	405.3	439.0	483.0	642.7	1422.5	2032.5	2384.5	2547.3	2186.0	1148.3
65°	333.6	338.7	364.3	392.0	437.0	616.1	779.8	899.6	810.5	631.4	547.5
67.5°	278.4	282.5	301.9	331.6	362.3	412.4	432.9	445.2	466.7	524.0	503.5
70°	218.0	222.1	242.5	268.1	297.8	310.1	329.5	341.8	384.8	458.5	456.4
72.5°	167.8	173.0	184.2	200.6	225.1	237.4	258.9	273.2	297.8	357.2	381.7
75°	122.8	125.9	136.1	141.2	144.3	141.2	162.7	179.1	211.8	234.4	240.5
77.5°	50.1	56.3	54.2	54.2	64.5	77.8	89.0	99.3	121.8	135.1	136.1
80°	20.5	22.5	26.6	29.7	35.8	46.1	53.2	57.3	67.5	75.7	81.9
82.5°	12.3	13.3	15.4	16.4	20.5	26.6	30.7	33.8	42.0	50.1	53.2
85°	6.1	6.1	7.2	8.2	10.2	12.3	14.3	16.4	21.5	26.6	29.7
87.5°	1.0	1.0	1.0	2.0	3.1	4.1	5.1	6.1	7.2	8.2	10.2
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°	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2	3856.2
2.5°	3858.2	3803.0	3738.5	3687.3	3628.0	3584.0	3521.5	3482.6	3445.8	3415.1	3392.6
5°	3862.3	3769.2	3635.1	3516.4	3393.6	3276.9	3157.2	3060.0	2973.0	2900.3	2894.2
7.5°	3885.9	3751.8	3542.0	3334.3	3094.8	2863.5	2632.2	2443.9	2300.6	2225.9	2210.6
10°	3925.8	3749.8	3446.8	3115.2	2706.9	2334.4	2060.1	1916.8	1833.9	1804.3	1794.0
12.5°	3967.7	3744.6	3325.0	2806.2	2239.2	1912.7	1762.3	1744.9	1760.3	1762.3	1761.3
15°	4018.9	3741.6	3171.5	2443.9	1897.4	1717.3	1727.5	1764.3	1800.2	1808.4	1808.4
17.5°	4081.3	3734.4	2962.8	2089.8	1683.5	1679.4	1733.6	1782.8	1816.5	1822.7	1822.7
20°	4146.8	3716.0	2705.9	1801.2	1596.5	1655.9	1714.2	1752.1	1775.6	1783.8	1784.8
22.5°	4191.9	3666.9	2410.1	1587.3	1542.3	1610.8	1652.8	1691.7	1691.7	1671.2	1665.1
25°	4201.1	3561.4	2089.8	1441.0	1477.8	1541.2	1584.2	1561.7	1519.8	1503.4	1502.4
27.5°	4167.3	3407.9	1773.6	1336.6	1400.0	1463.5	1456.3	1423.6	1405.1	1388.8	1394.9
30°	4126.4	3223.7	1499.3	1250.6	1310.0	1372.4	1347.8	1336.6	1323.3	1304.8	1308.9
32.5°	4098.7	3018.0	1288.5	1184.1	1249.6	1259.8	1277.2	1276.2	1263.9	1229.1	1227.1
35°	4106.9	2810.3	1147.2	1129.8	1199.4	1195.3	1228.1	1221.9	1137.0	1088.9	1085.8
37.5°	4172.4	2610.7	1064.3	1086.9	1119.6	1145.2	1173.8	1100.2	1070.5	1039.8	1041.8
40°	4297.3	2425.5	1019.3	1063.3	1071.5	1109.4	1042.8	1041.8	1028.5	1000.9	999.9
42.5°	4438.5	2268.9	988.6	1052.1	1040.8	1048.0	977.4	985.5	984.5	967.1	962.0
45°	4524.5	2124.6	964.0	1010.1	1013.2	941.5	920.0	929.3	934.4	925.2	924.1
47.5°	4435.4	1958.8	938.5	945.6	972.2	893.4	866.8	867.8	877.1	878.1	874.0
50°	4185.7	1773.6	907.8	890.4	873.0	843.3	818.7	813.6	822.8	832.0	835.1
52.5°	3863.4	1596.5	856.6	830.0	789.0	789.0	777.8	761.4	773.7	786.0	790.1
55°	3626.9	1465.5	783.9	754.2	709.2	724.6	722.5	708.2	724.6	733.8	736.9
57.5°	3142.9	1177.9	689.8	680.6	642.7	661.1	665.2	646.8	638.6	640.7	643.7
60°	1865.7	760.4	622.2	621.2	587.4	608.9	621.2	602.8	578.2	581.3	585.4
62.5°	837.1	581.3	537.3	533.2	532.2	559.8	573.1	555.7	520.9	524.0	528.1
65°	527.1	502.5	466.7	466.7	483.0	506.6	516.8	502.5	462.6	457.5	461.6
67.5°	489.2	467.7	430.9	423.7	431.9	451.3	452.3	424.7	401.2	397.1	397.1
70°	439.0	422.7	386.8	372.5	369.4	368.4	365.4	358.2	342.8	338.7	340.8
72.5°	363.3	352.1	329.5	314.2	306.0	305.0	292.7	286.6	273.2	271.2	270.2
75°	240.5	243.6	243.6	241.5	234.4	231.3	218.0	211.8	196.5	190.4	189.3
77.5°	142.3	145.3	149.4	150.4	149.4	149.4	137.1	130.0	114.6	106.4	104.4
80°	87.0	89.0	91.1	94.2	90.1	87.0	75.7	68.6	61.4	56.3	55.3
82.5°	56.3	58.3	59.4	61.4	59.4	55.3	46.1	42.0	36.8	32.7	31.7
85°	31.7	32.7	34.8	34.8	31.7	28.7	23.5	20.5	17.4	15.4	15.4
87.5°	11.3	11.3	11.3	12.3	10.2	9.2	6.1	4.1	3.1	3.1	3.1
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)