

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: P638355

Luminaire Tested: GWS-SA4E-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

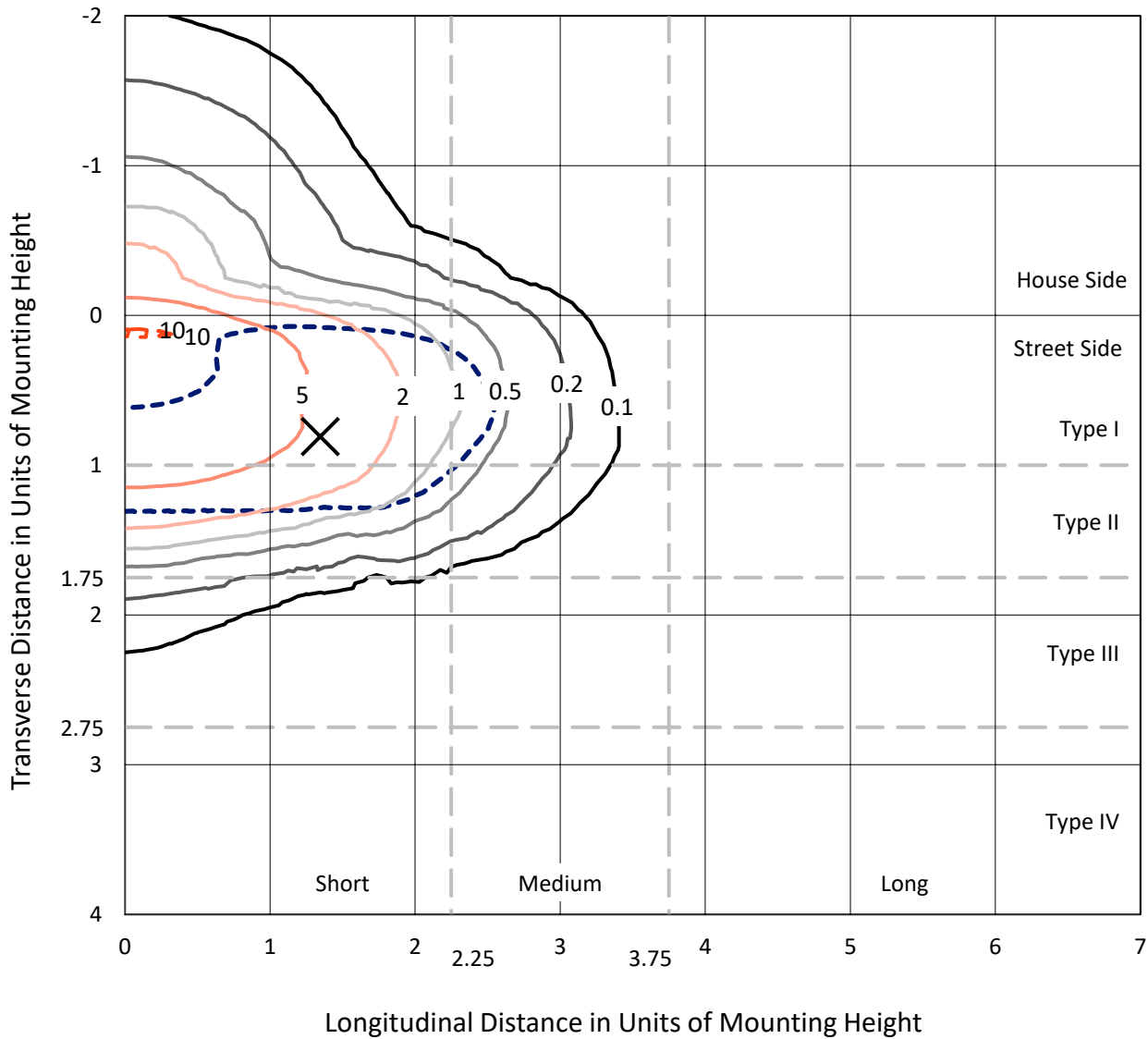
Lumens per Lamp: N/A  
Luminaire Lumens: 31440.4 lumens  
Efficiency: N/A  
Efficacy: 155.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

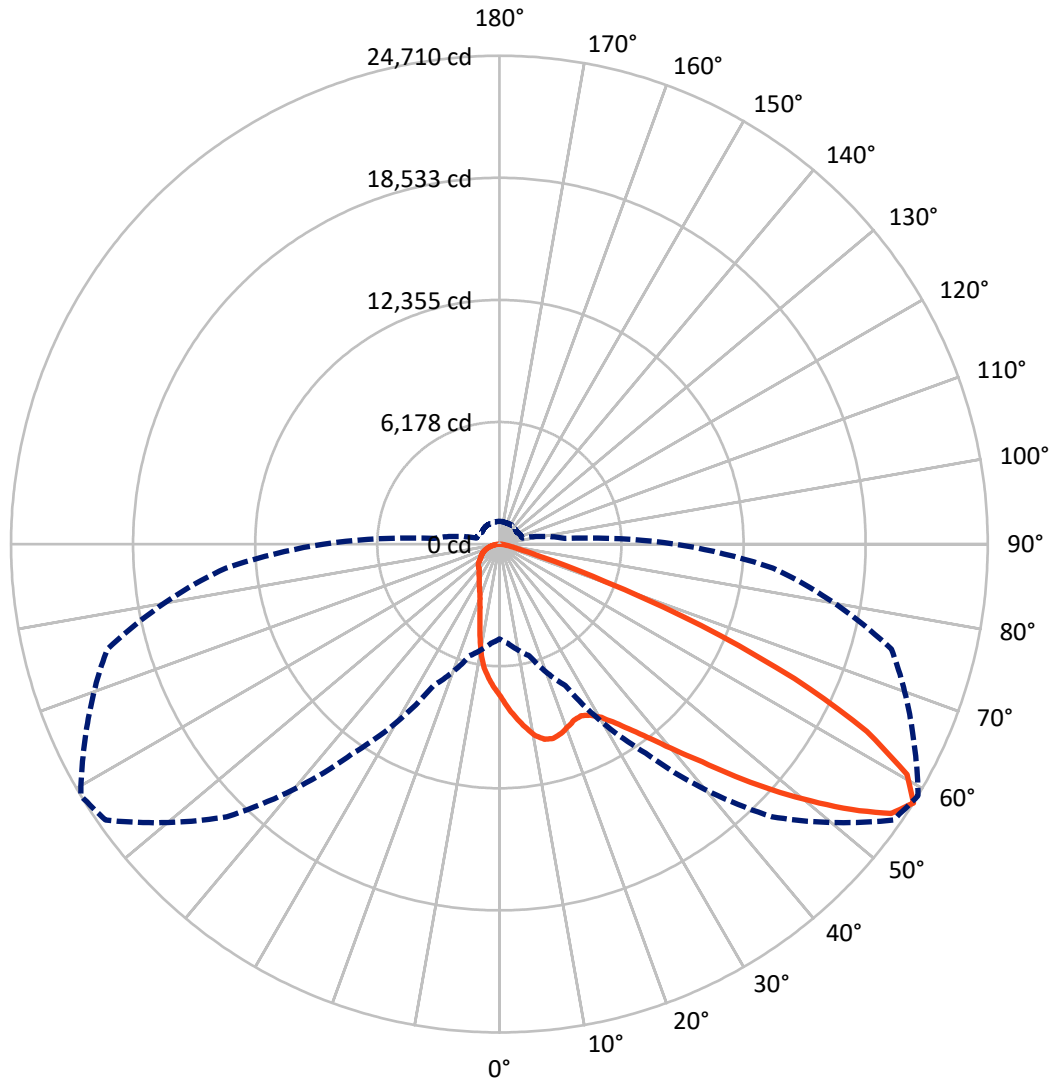
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4879.4	0.0	4879.4
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	26561.0	0.0	26561.0
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	31440.4	0.0	31440.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	716.6	2.3
10°-20°	1815.9	5.8
20°-30°	2943.7	9.4
30°-40°	4735.3	15.1
40°-50°	7353.4	23.4
50°-60°	7920.6	25.2
60°-70°	4596.8	14.6
70°-80°	1200.0	3.8
80°-90°	158.1	0.5
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°	31440.4	100.0
0°-180°	31440.4	100.0

**Coefficient of Utilization**



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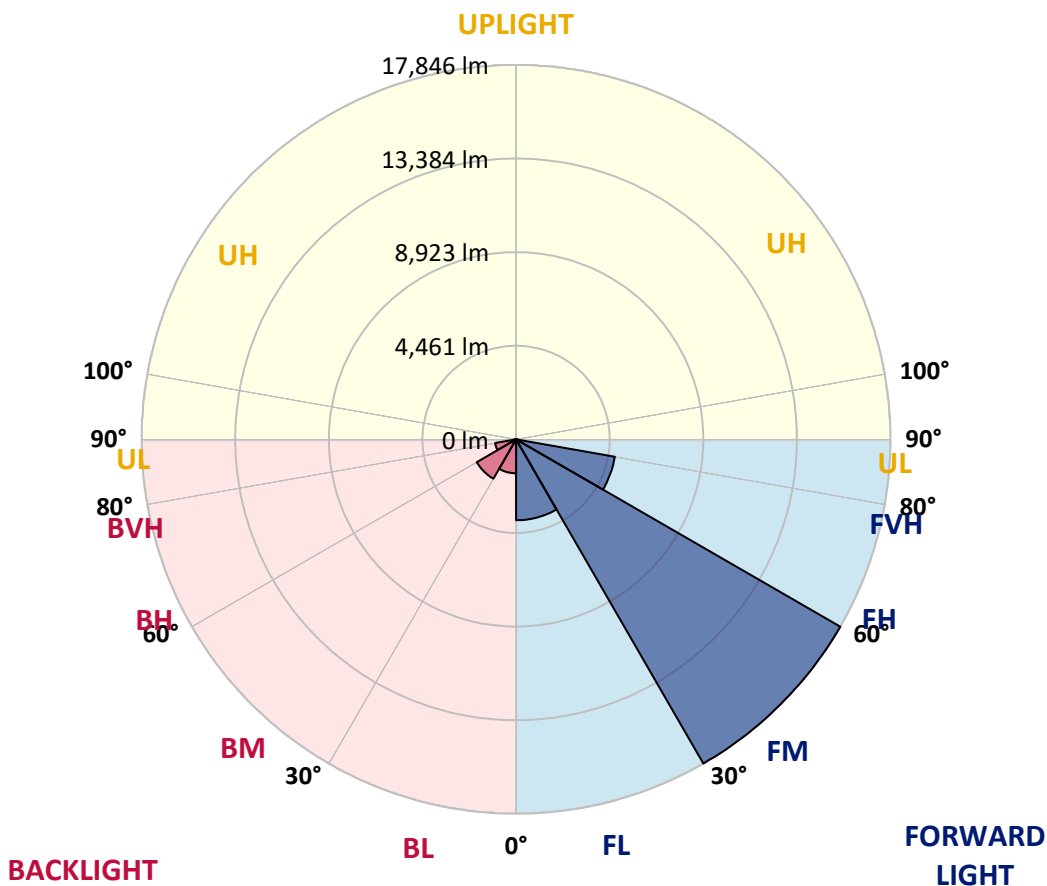
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3857.4	12.3			
FM (30°-60°)	17845.9	56.8			
FH (60°-80°)	4781.9	15.2			G2/5000
FVH (80°-90°)	75.7	0.2			G1/100
BL (0°-30°)	1618.8	5.1	B3/2500		
BM (30°-60°)	2163.3	6.9	B2/2500		
BH (60°-80°)	1014.9	3.2	B3/2500		G3/2500
BVH (80°-90°)	82.4	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0
2.5°	8753.8	8680.8	8731.7	8641.0	8603.3	8503.7	8375.4	8289.0	8156.2	7983.6	7833.1
5°	9623.7	9572.8	9583.9	9486.5	9400.1	9234.1	8970.8	8824.7	8598.9	8251.4	7928.3
7.5°	9597.1	9656.9	9690.1	9774.2	9798.5	9783.1	9546.2	9342.6	9094.7	8572.3	8085.4
10°	8603.3	8716.2	8818.0	9105.8	9455.5	9898.2	9953.5	9831.7	9581.6	8981.8	8273.5
12.5°	7521.0	7607.3	7698.1	8043.4	8579.0	9464.3	10064.2	10139.4	10039.8	9386.9	8486.0
15°	6989.8	7029.6	7116.0	7343.9	7771.1	8753.8	9871.6	10201.4	10380.7	9816.3	8725.1
17.5°	6967.7	6985.4	7027.4	7149.2	7445.7	8204.9	9524.1	10077.4	10648.5	10270.0	9004.0
20°	7425.8	7379.3	7352.8	7350.6	7496.7	8021.2	9187.7	9878.2	10774.6	10734.8	9302.8
22.5°	8061.1	8076.6	8019.0	7877.4	7859.6	8151.8	9019.4	9676.8	10812.3	11146.5	9579.4
25°	8961.9	9039.4	8868.9	8598.9	8466.1	8530.3	9123.5	9614.8	10807.8	11489.6	9752.1
27.5°	10013.2	10073.0	9900.4	9546.2	9271.8	9116.8	9433.3	9798.5	10845.5	11786.1	9856.1
30°	11210.7	11230.6	10993.8	10621.9	10221.3	9889.3	9949.1	10177.0	11038.0	12175.7	9977.8
32.5°	12673.7	12757.8	12399.2	11810.5	11250.5	10825.5	10641.8	10787.9	11454.1	12636.1	10166.0
35°	14530.7	14559.5	14103.5	13260.2	12467.9	11879.1	11494.0	11571.5	12087.2	13280.2	10449.3
37.5°	16281.5	16310.3	15825.5	15042.0	13908.8	13103.1	12545.3	12509.9	12897.3	14189.9	10911.9
40°	17392.6	17474.5	17257.6	16766.2	15683.9	14597.1	13840.1	13718.4	13959.7	15303.2	11556.0
42.5°	17990.2	18025.6	18021.2	18085.4	17441.3	16361.2	15301.0	15057.5	15219.1	16505.0	12206.7
45°	17994.6	18083.2	18320.0	18937.5	18966.3	18293.4	17146.9	16766.2	16617.9	17715.7	12886.2
47.5°	17189.0	17284.1	17934.9	19150.0	20046.4	20199.1	19358.1	18594.4	17970.3	18758.2	13444.0
50°	14749.8	14988.9	16228.4	18377.5	20258.9	21726.4	21467.4	20431.5	19172.1	19563.9	13793.7
52.5°	12631.7	12622.8	13386.4	16195.2	19371.3	22399.2	23508.1	22321.7	20360.7	20075.2	13882.2
55°	9249.6	9300.5	10081.9	12386.0	17003.0	21748.5	24630.3	24061.4	21724.1	20347.4	13846.8
57.5°	4796.4	5048.7	5849.9	7903.9	12919.4	19508.6	24331.5	24710.0	23109.7	20540.0	13893.3
60°	2423.6	2374.9	2662.7	3773.8	7485.6	15236.8	22490.0	23696.2	23359.8	20690.5	13922.0
62.5°	1618.0	1604.7	1525.0	1748.6	3058.9	9023.9	19172.1	20863.1	21622.3	20336.4	13554.6
65°	1401.1	1374.5	1228.4	1219.6	1485.2	3742.8	14052.6	16401.0	17870.7	18762.7	12675.9
67.5°	1261.6	1221.8	1073.5	1000.4	1066.8	1644.5	7919.4	11000.4	13196.1	15867.6	10750.3
70°	1126.6	1106.7	958.4	852.1	845.5	1002.7	2917.2	5677.3	8074.3	10825.5	7859.6
72.5°	1009.3	973.9	847.7	745.9	695.0	710.5	1266.0	2186.8	4178.8	6753.0	4701.2
75°	874.3	847.7	737.0	635.2	573.3	520.1	772.5	1011.5	1905.7	3209.4	2220.0
77.5°	675.1	657.4	582.1	504.6	469.2	387.3	469.2	637.4	880.9	1352.4	1155.4
80°	391.8	402.8	433.8	394.0	345.3	276.7	305.4	367.4	529.0	732.6	655.2
82.5°	197.0	210.3	281.1	228.0	205.8	161.6	181.5	216.9	276.7	405.0	256.7
85°	15.5	15.5	50.9	57.5	70.8	57.5	73.0	88.5	126.2	161.6	86.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	11.1	19.9	37.6	24.3
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°	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0	7718.0
2.5°	7731.3	7618.4	7483.4	7372.7	7202.3	7111.5	6996.4	6854.8	6797.2	6770.7	6755.2
5°	7746.8	7547.6	7259.8	6994.2	6699.8	6467.4	6208.5	5938.4	5783.5	5745.9	5719.3
7.5°	7804.3	7525.4	7067.3	6629.0	6082.3	5575.5	5081.9	4592.7	4342.6	4247.4	4238.6
10°	7884.0	7516.6	6872.5	6144.3	5221.3	4420.1	3842.4	3459.5	3297.9	3244.8	3227.1
12.5°	7983.6	7509.9	6615.7	5471.4	4227.5	3470.5	3140.8	3078.8	3100.9	3096.5	3096.5
15°	8109.8	7518.8	6305.9	4710.0	3419.6	3012.4	3019.0	3092.1	3160.7	3171.7	3171.7
17.5°	8247.0	7509.9	5856.6	3946.4	2934.9	2903.9	3005.7	3107.6	3169.5	3178.4	3178.4
20°	8395.3	7467.9	5289.9	3227.1	2722.4	2835.3	2946.0	3025.7	3063.3	3072.1	3072.1
22.5°	8483.8	7348.4	4674.6	2731.3	2587.4	2726.9	2799.9	2881.8	2886.2	2815.4	2813.2
25°	8470.5	7124.8	3973.0	2412.6	2443.6	2565.3	2658.2	2600.7	2529.9	2490.0	2483.4
27.5°	8386.4	6788.4	3258.1	2171.3	2273.1	2410.4	2381.6	2332.9	2315.2	2270.9	2266.5
30°	8280.2	6374.5	2616.2	1983.2	2096.1	2222.2	2177.9	2173.5	2155.8	2107.1	2107.1
32.5°	8178.4	5947.3	2131.5	1843.7	1983.2	1992.0	2054.0	2058.4	2049.6	1965.5	1956.6
35°	8149.6	5520.1	1803.9	1733.1	1872.5	1868.1	1956.6	1954.4	1801.7	1684.4	1682.2
37.5°	8235.9	5086.3	1609.1	1642.3	1719.8	1777.3	1848.2	1719.8	1668.9	1598.0	1593.6
40°	8419.6	4685.7	1509.5	1589.2	1622.4	1706.5	1595.8	1604.7	1591.4	1538.3	1531.6
42.5°	8663.1	4344.8	1454.2	1571.5	1567.1	1589.2	1467.5	1502.9	1522.8	1483.0	1476.3
45°	8897.7	4048.2	1425.4	1505.1	1527.2	1398.8	1374.5	1407.7	1438.7	1423.2	1416.6
47.5°	9070.4	3791.5	1409.9	1414.3	1476.3	1334.7	1294.8	1310.3	1347.9	1354.6	1352.4
50°	9123.5	3572.4	1392.2	1339.1	1325.8	1270.5	1239.5	1235.1	1279.3	1310.3	1314.7
52.5°	9021.7	3377.6	1345.7	1272.7	1208.5	1217.3	1206.3	1184.1	1228.4	1270.5	1274.9
55°	8871.2	3266.9	1272.7	1208.5	1133.2	1168.7	1173.1	1153.2	1181.9	1210.7	1210.7
57.5°	8882.2	3331.1	1201.9	1148.7	1066.8	1113.3	1137.7	1128.8	1128.8	1150.9	1153.2
60°	8955.3	3424.1	1155.4	1073.5	1000.4	1049.1	1104.5	1095.6	1075.7	1104.5	1104.5
62.5°	8745.0	3300.1	1124.4	1000.4	929.6	987.2	1053.6	1049.1	1027.0	1073.5	1077.9
65°	8125.2	2968.1	1089.0	909.7	858.8	925.2	982.7	998.2	978.3	1040.3	1051.3
67.5°	6810.5	2496.7	1020.4	823.4	788.0	849.9	905.3	927.4	911.9	984.9	993.8
70°	5077.4	2020.8	911.9	728.2	701.6	757.0	807.9	816.7	818.9	905.3	914.1
72.5°	3238.1	1571.5	768.0	622.0	602.0	644.1	681.7	717.1	732.6	814.5	812.3
75°	1806.1	1168.7	617.5	526.8	491.4	524.6	568.8	610.9	655.2	774.7	788.0
77.5°	1040.3	821.2	489.2	422.8	380.7	416.1	453.7	513.5	646.3	750.3	737.0
80°	586.5	533.4	369.6	309.9	283.3	309.9	338.6	451.5	509.1	553.3	560.0
82.5°	274.5	298.8	252.3	190.3	190.3	208.1	234.6	349.7	385.1	314.3	274.5
85°	99.6	135.0	123.9	97.4	86.3	84.1	146.1	199.2	123.9	110.7	95.2
87.5°	26.6	37.6	35.4	24.3	13.3	11.1	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)