

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: P638353

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638353  
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-SA4E-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

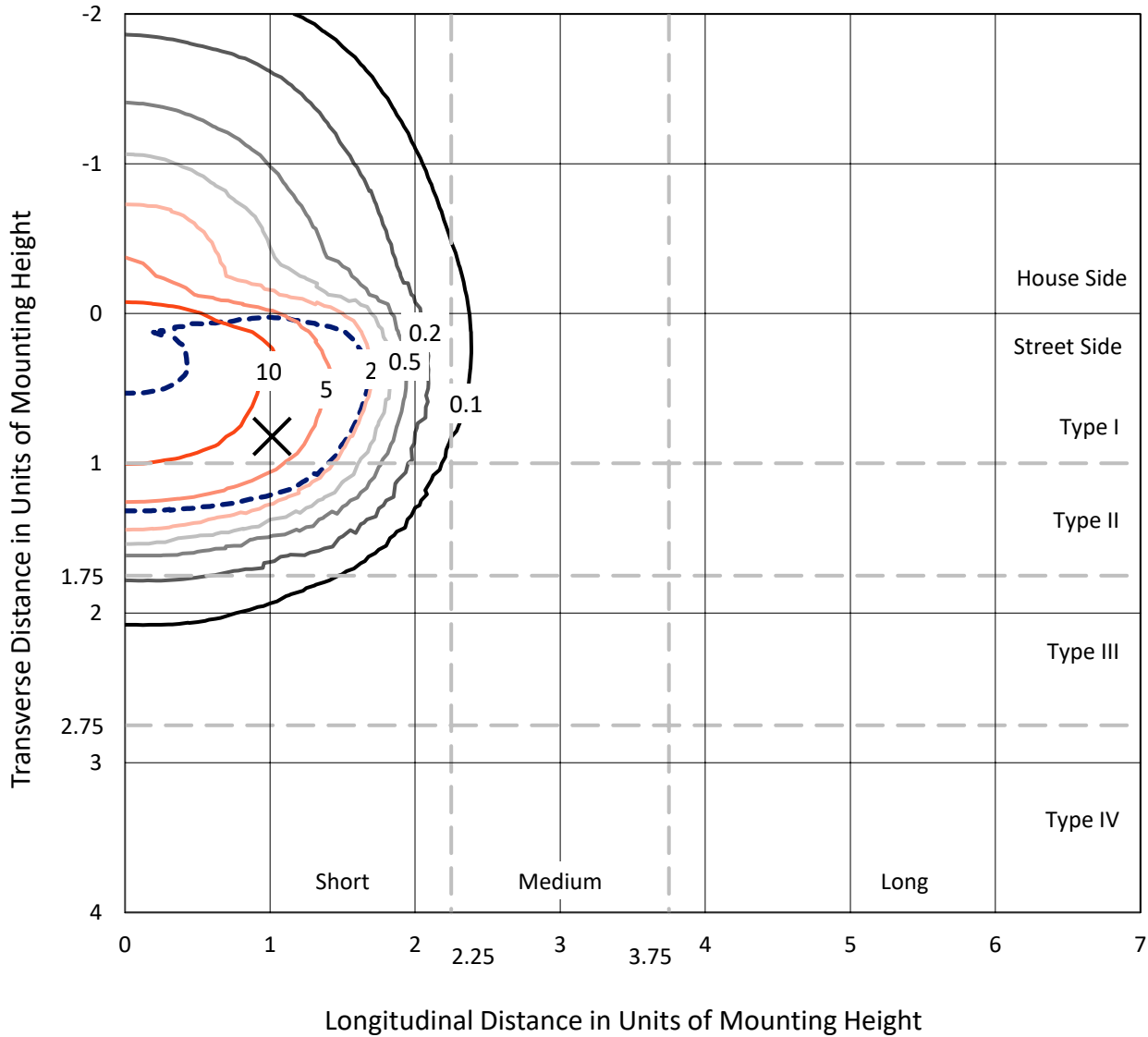
Lumens per Lamp: N/A  
Luminaire Lumens: 28009.7 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

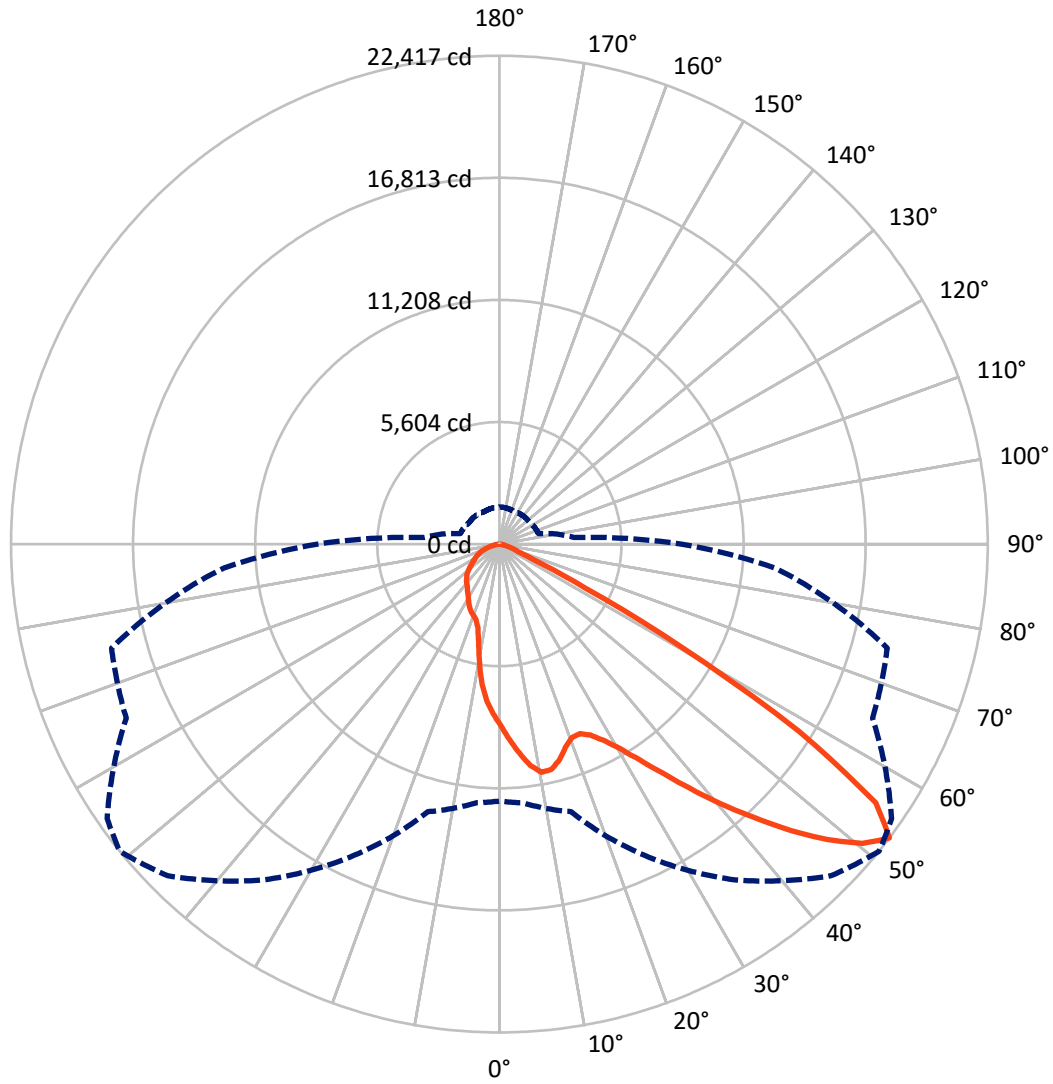
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	5457.5	0.0	5457.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	22552.2	0.0	22552.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	28009.7	0.0	28009.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	778.2	2.8
10°-20°	2022.1	7.2
20°-30°	3287.8	11.7
30°-40°	5210.5	18.6
40°-50°	7858.5	28.1
50°-60°	6798.2	24.3
60°-70°	1541.2	5.5
70°-80°	454.4	1.6
80°-90°	58.5	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°	28009.7	100.0
0°-180°	28009.7	100.0

**Coefficient of Utilization**



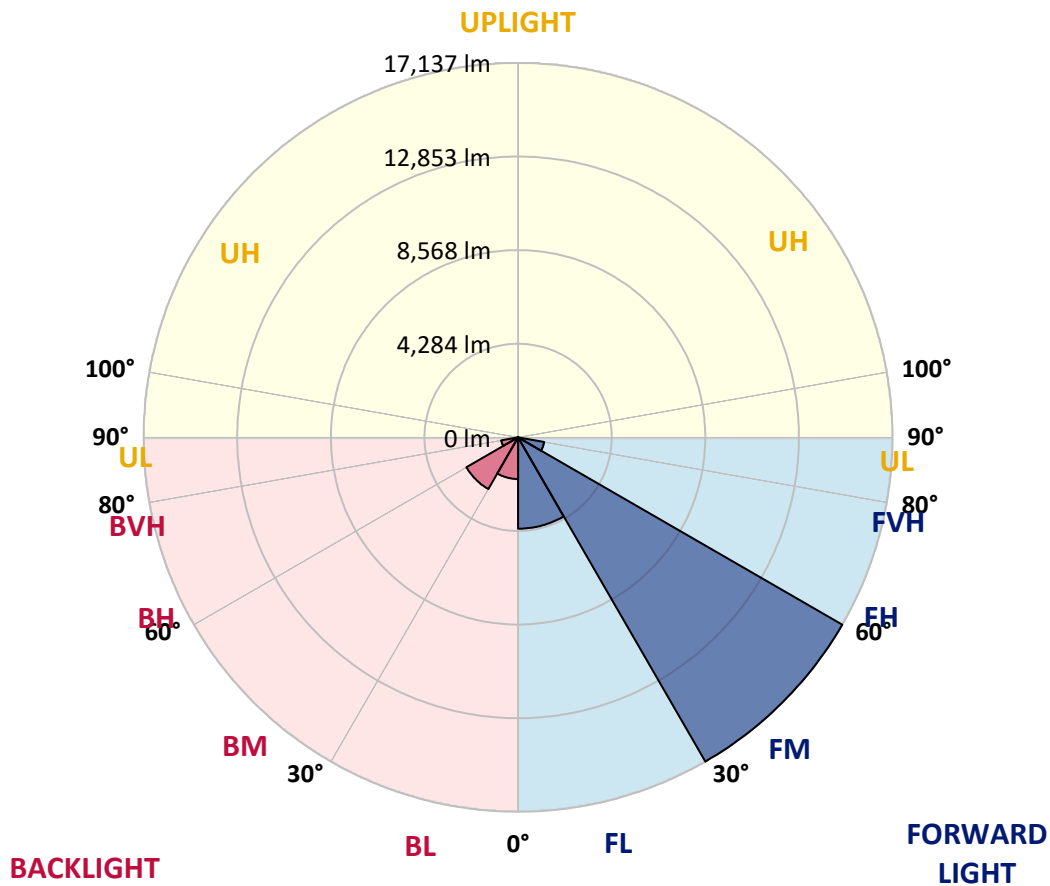
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4180.5	14.9			
FM (30°-60°)	17136.7	61.2			
FH (60°-80°)	1212.9	4.3			G1/1800
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	1907.7	6.8	B3/2500		
BM (30°-60°)	2730.5	9.7	B3/5000		
BH (60°-80°)	782.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	36.5	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°	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9
2.5°	9293.8	9347.0	9265.1	9234.1	9183.2	9094.6	8992.8	8964.0	8744.9	8601.1	8439.5
5°	10227.9	10256.6	10190.2	10123.8	9997.7	9840.5	9643.5	9601.5	9203.1	8873.3	8530.2
7.5°	10435.9	10424.9	10482.4	10520.0	10504.5	10442.6	10267.7	10185.8	9709.9	9187.6	8680.7
10°	9612.6	9550.6	9763.1	10015.4	10318.6	10668.3	10648.4	10641.8	10227.9	9610.3	8873.3
12.5°	8521.4	8490.4	8663.0	8979.5	9552.8	10327.5	10617.4	10843.2	10694.9	10013.2	9088.0
15°	7897.2	7886.1	8003.5	8231.4	8687.4	9665.7	10285.4	10732.5	11095.5	10444.8	9316.0
17.5°	7784.3	7791.0	7830.8	7961.4	8289.0	9094.6	9811.8	10435.9	11407.6	10918.4	9601.5
20°	8114.1	8158.4	8089.8	8109.7	8286.8	8888.8	9488.6	10137.1	11606.8	11394.3	9909.1
22.5°	8846.7	8831.2	8680.7	8592.2	8594.4	9015.0	9453.2	9997.7	11737.4	11856.9	10188.0
25°	9676.7	9659.0	9479.8	9282.8	9158.8	9358.0	9707.7	10146.0	11854.7	12279.6	10411.6
27.5°	10657.3	10601.9	10402.7	10150.4	9875.9	9962.3	10199.1	10546.6	12036.2	12695.7	10559.9
30°	11606.8	11671.0	11385.4	11086.6	10796.7	10743.6	10880.8	11195.1	12405.8	13182.7	10736.9
32.5°	12866.2	12844.0	12527.5	12138.0	11724.1	11684.2	11792.7	12080.4	13069.8	13855.5	11007.0
35°	14391.2	14395.6	13946.3	13419.5	12830.8	12724.5	12906.0	13184.9	14059.2	14767.4	11434.1
37.5°	15975.9	15969.3	15577.5	14979.9	14176.5	14026.0	14234.0	14442.1	15296.4	16009.1	12098.1
40°	17087.0	17131.3	16947.6	16633.3	15871.9	15504.5	15688.2	15832.1	16642.1	17469.9	12972.4
42.5°	17717.8	17784.2	17824.1	18012.2	17611.6	17219.8	17153.4	17228.7	17844.0	18826.7	13793.6
45°	17852.8	17941.4	18231.3	18928.5	19083.5	18972.8	18755.9	18574.4	18740.4	19789.5	14331.4
47.5°	17257.5	17412.4	18032.1	19251.7	20156.9	20504.4	20263.2	19986.5	19258.3	20037.4	14276.1
50°	14898.0	15079.5	16476.1	18592.1	20309.7	21575.7	21597.8	21188.4	19196.3	19322.5	13581.1
52.5°	11794.9	11918.9	12717.9	15761.2	18811.2	21531.4	22416.8	21978.5	18897.5	18428.3	12711.2
55°	7049.5	7248.7	7994.6	10398.3	14654.6	19083.5	20969.2	21181.7	18751.5	17678.0	12118.1
57.5°	2379.3	2476.7	3189.4	4592.7	8636.5	13972.8	16201.7	17064.9	17022.8	16531.5	10960.5
60°	1133.2	1155.4	1299.2	1741.9	3457.2	7301.8	9590.4	10586.4	11493.9	11584.6	6819.3
62.5°	863.2	876.5	949.5	1044.7	1390.0	3076.5	4395.7	5157.1	5509.0	4727.7	2483.4
65°	721.6	732.6	788.0	847.7	945.1	1332.4	1686.6	1945.5	1753.0	1365.6	1184.1
67.5°	602.0	610.9	652.9	717.1	783.5	892.0	936.2	962.8	1009.3	1133.2	1089.0
70°	471.4	480.3	524.6	579.9	644.1	670.6	712.7	739.3	832.2	991.6	987.2
72.5°	363.0	374.1	398.4	433.8	486.9	513.5	560.0	591.0	644.1	772.5	825.6
75°	265.6	272.2	294.4	305.4	312.1	305.4	351.9	387.3	458.2	506.9	520.1
77.5°	108.5	121.7	117.3	117.3	139.4	168.2	192.6	214.7	263.4	292.2	294.4
80°	44.3	48.7	57.5	64.2	77.5	99.6	115.1	123.9	146.1	163.8	177.1
82.5°	26.6	28.8	33.2	35.4	44.3	57.5	66.4	73.0	90.7	108.5	115.1
85°	13.3	13.3	15.5	17.7	22.1	26.6	31.0	35.4	46.5	57.5	64.2
87.5°	2.2	2.2	2.2	4.4	6.6	8.9	11.1	13.3	15.5	17.7	22.1
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°	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9	8339.9
2.5°	8344.3	8224.8	8085.4	7974.7	7846.3	7751.1	7616.1	7532.0	7452.3	7385.9	7337.2
5°	8353.2	8151.8	7861.8	7605.1	7339.5	7087.1	6828.2	6617.9	6429.8	6272.6	6259.3
7.5°	8404.1	8114.1	7660.4	7211.1	6693.2	6192.9	5692.7	5285.5	4975.6	4814.0	4780.8
10°	8490.4	8109.7	7454.5	6737.4	5854.3	5048.6	4455.5	4145.6	3966.3	3902.1	3880.0
12.5°	8581.1	8098.6	7191.2	6069.0	4842.8	4136.7	3811.4	3773.8	3807.0	3811.4	3809.2
15°	8691.8	8092.0	6859.2	5285.5	4103.5	3714.0	3736.1	3815.8	3893.3	3911.0	3911.0
17.5°	8826.8	8076.5	6407.6	4519.7	3641.0	3632.1	3749.4	3855.6	3928.7	3942.0	3942.0
20°	8968.5	8036.7	5852.1	3895.5	3452.8	3581.2	3707.4	3789.2	3840.2	3857.9	3860.1
22.5°	9065.9	7930.4	5212.4	3432.9	3335.5	3483.8	3574.6	3658.7	3658.7	3614.4	3601.1
25°	9085.8	7702.4	4519.7	3116.4	3196.1	3333.3	3426.3	3377.6	3286.8	3251.4	3249.2
27.5°	9012.7	7370.4	3835.7	2890.6	3027.9	3165.1	3149.6	3078.8	3038.9	3003.5	3016.8
30°	8924.2	6972.0	3242.6	2704.7	2833.1	2968.1	2915.0	2890.6	2861.9	2822.0	2830.9
32.5°	8864.4	6527.2	2786.6	2560.8	2702.5	2724.6	2762.3	2760.0	2733.5	2658.2	2653.8
35°	8882.2	6077.8	2481.2	2443.5	2594.0	2585.2	2656.0	2642.7	2459.0	2355.0	2348.4
37.5°	9023.8	5646.2	2301.9	2350.6	2421.4	2476.7	2538.7	2379.3	2315.2	2248.8	2253.2
40°	9293.8	5245.6	2204.5	2299.7	2317.4	2399.3	2255.4	2253.2	2224.4	2164.7	2162.4
42.5°	9599.3	4907.0	2138.1	2275.3	2251.0	2266.5	2113.7	2131.5	2129.2	2091.6	2080.5
45°	9785.2	4594.9	2085.0	2184.6	2191.2	2036.3	1989.8	2009.7	2020.8	2000.9	1998.7
47.5°	9592.6	4236.3	2029.6	2045.1	2102.7	1932.3	1874.7	1876.9	1896.8	1899.1	1890.2
50°	9052.6	3835.7	1963.2	1925.6	1888.0	1823.8	1770.7	1759.6	1779.5	1799.4	1806.1
52.5°	8355.4	3452.8	1852.6	1795.0	1706.5	1706.5	1682.1	1646.7	1673.3	1699.8	1708.7
55°	7844.1	3169.5	1695.4	1631.2	1533.8	1567.0	1562.6	1531.6	1567.0	1587.0	1593.6
57.5°	6797.2	2547.6	1491.8	1471.9	1390.0	1429.8	1438.7	1398.8	1381.1	1385.6	1392.2
60°	4034.9	1644.5	1345.7	1343.5	1270.5	1316.9	1343.5	1303.7	1250.5	1257.2	1266.0
62.5°	1810.5	1257.2	1162.0	1153.2	1150.9	1210.7	1239.5	1201.8	1126.6	1133.2	1142.1
65°	1139.9	1086.8	1009.3	1009.3	1044.7	1095.6	1117.7	1086.8	1000.4	989.4	998.2
67.5°	1058.0	1011.5	931.8	916.3	934.0	976.1	978.3	918.5	867.6	858.8	858.8
70°	949.5	914.1	836.6	805.7	799.0	796.8	790.2	774.7	741.5	732.6	737.0
72.5°	785.7	761.4	712.7	679.5	661.8	659.6	633.0	619.7	591.0	586.5	584.3
75°	520.1	526.8	526.8	522.3	506.9	500.2	471.4	458.2	425.0	411.7	409.5
77.5°	307.7	314.3	323.1	325.4	323.1	323.1	296.6	281.1	247.9	230.2	225.8
80°	188.1	192.6	197.0	203.6	194.8	188.1	163.8	148.3	132.8	121.7	119.5
82.5°	121.7	126.2	128.4	132.8	128.4	119.5	99.6	90.7	79.7	70.8	68.6
85°	68.6	70.8	75.3	75.3	68.6	62.0	50.9	44.3	37.6	33.2	33.2
87.5°	24.3	24.3	24.3	26.6	22.1	19.9	13.3	8.9	6.6	6.6	6.6
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)