

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: P639783

Luminaire Tested: GWS-SA5C-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639783  
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-SA5C-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

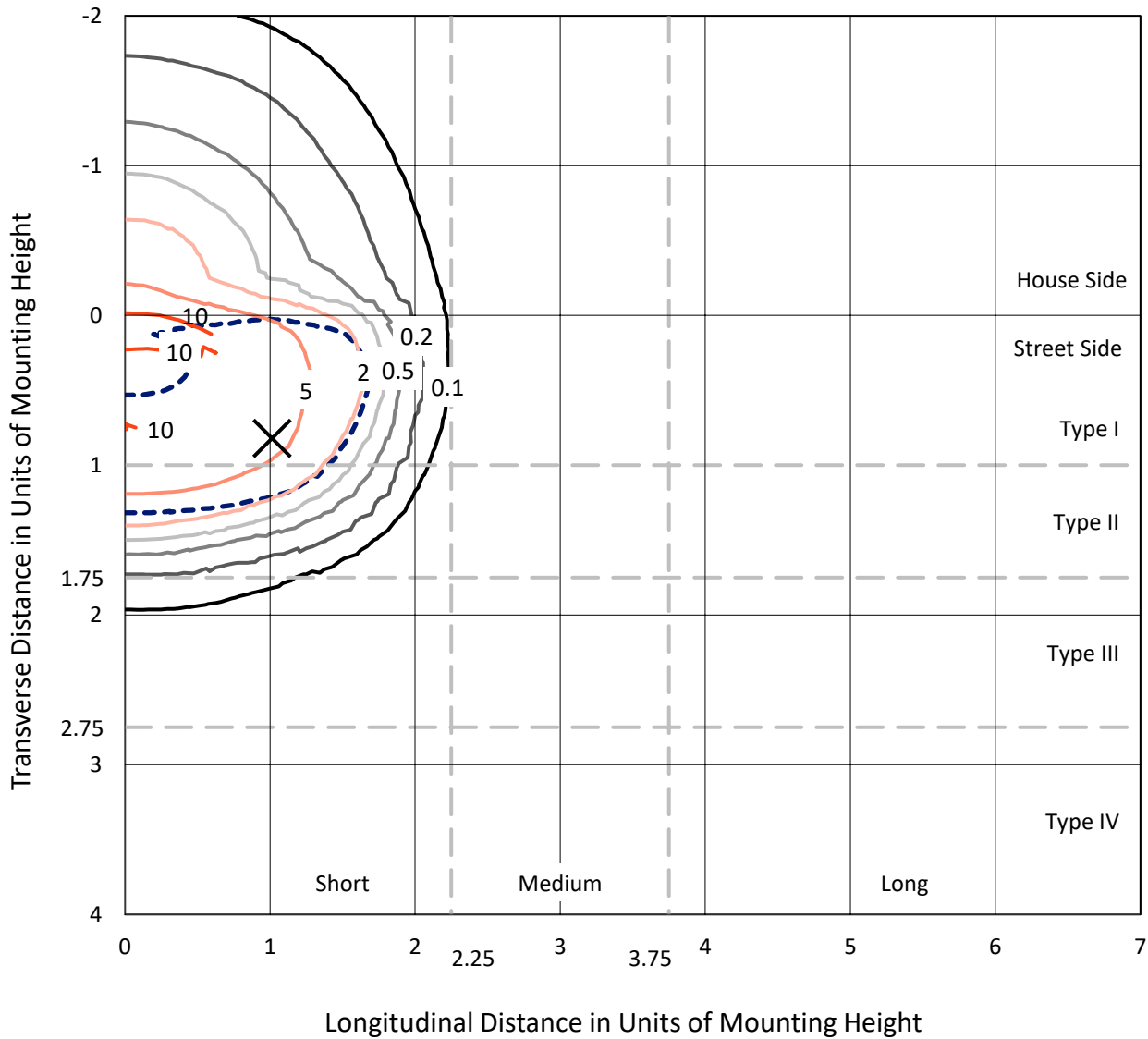
Lumens per Lamp: N/A  
Luminaire Lumens: 22097.8 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

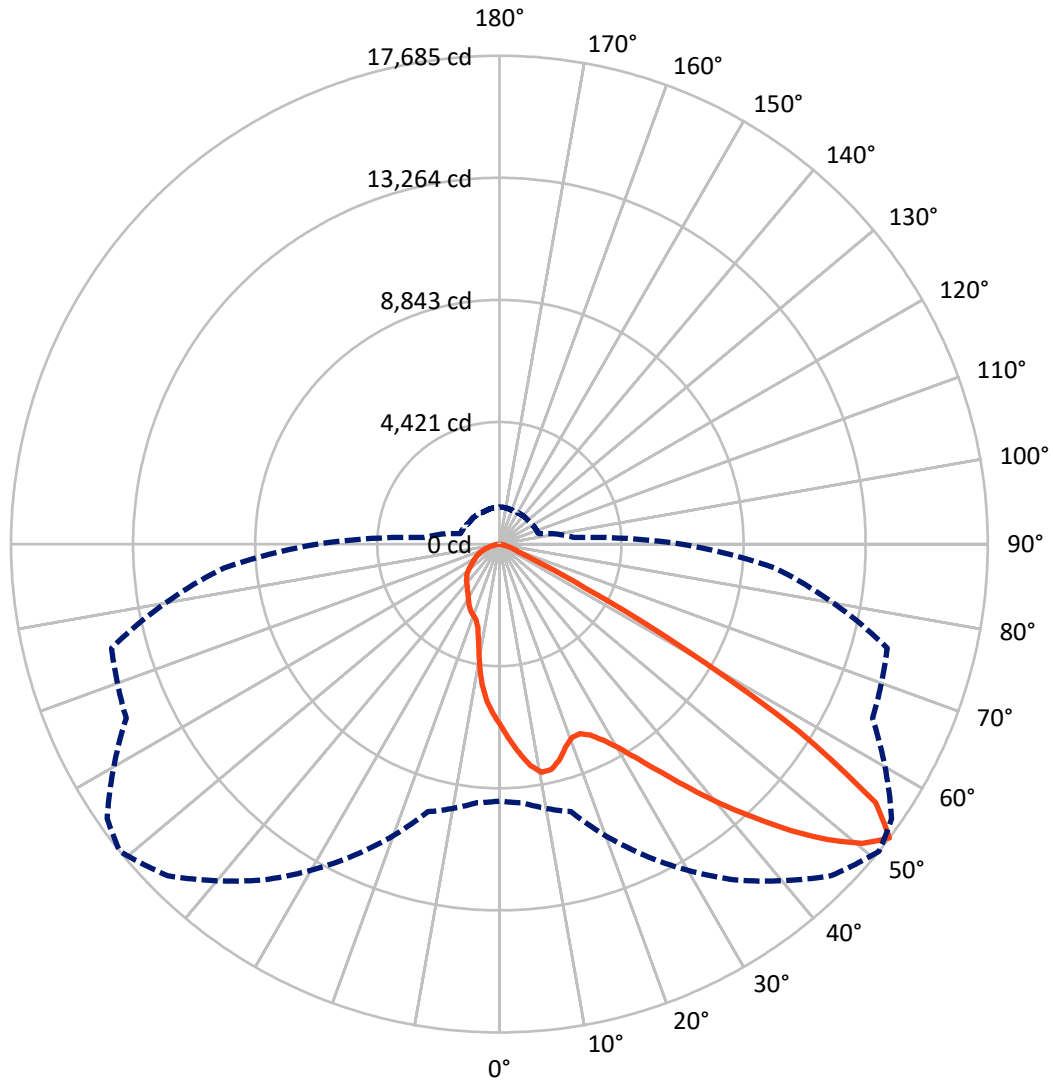
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	4305.6	0.0	4305.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	17792.2	0.0	17792.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	22097.8	0.0	22097.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.0	2.8
10°-20°	1595.3	7.2
20°-30°	2593.9	11.7
30°-40°	4110.7	18.6
40°-50°	6199.9	28.1
50°-60°	5363.4	24.3
60°-70°	1215.9	5.5
70°-80°	358.5	1.6
80°-90°	46.2	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°	22097.8	100.0
0°-180°	22097.8	100.0

**Coefficient of Utilization**



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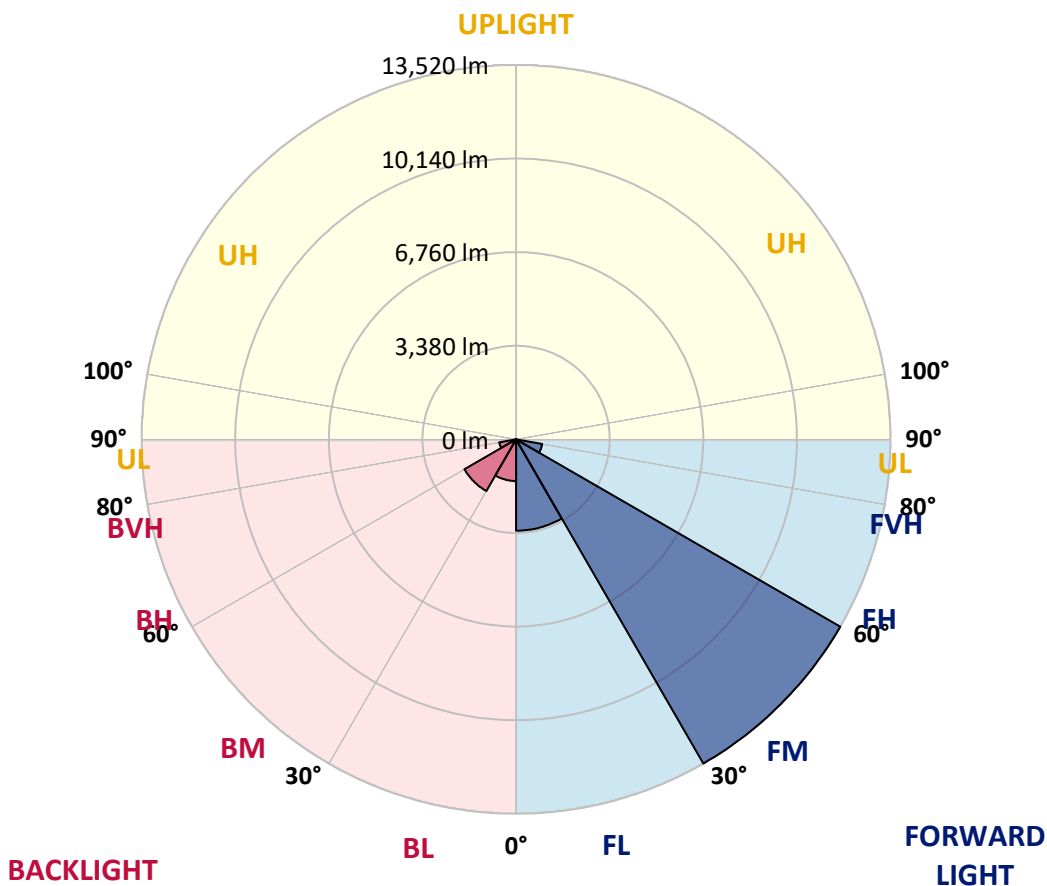
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3298.2	14.9			
FM (30°-60°)	13519.8	61.2			
FH (60°-80°)	956.9	4.3			G1/1800
FVH (80°-90°)	17.4	0.1			G1/100
BL (0°-30°)	1505.0	6.8	B3/2500		
BM (30°-60°)	2154.2	9.7	B2/2500		
BH (60°-80°)	617.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.8	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°	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6
2.5°	7332.2	7374.1	7309.5	7285.1	7244.9	7175.1	7094.7	7072.0	6899.2	6785.7	6658.2
5°	8069.1	8091.8	8039.4	7987.0	7887.5	7763.5	7608.1	7574.9	7260.6	7000.4	6729.8
7.5°	8233.3	8224.5	8269.9	8299.6	8287.4	8238.5	8100.5	8035.9	7660.5	7248.4	6848.5
10°	7583.7	7534.8	7702.4	7901.5	8140.7	8416.6	8400.9	8395.6	8069.1	7581.9	7000.4
12.5°	6722.8	6698.4	6834.6	7084.3	7536.5	8147.7	8376.4	8554.6	8437.6	7899.7	7169.8
15°	6230.4	6221.7	6314.2	6494.1	6853.8	7625.6	8114.5	8467.2	8753.6	8240.2	7349.7
17.5°	6141.3	6146.6	6178.0	6281.0	6539.5	7175.1	7740.8	8233.3	8999.8	8613.9	7574.9
20°	6401.5	6436.4	6382.3	6398.0	6537.7	7012.7	7485.9	7997.5	9157.0	8989.4	7817.7
22.5°	6979.5	6967.3	6848.5	6778.7	6780.4	7112.2	7457.9	7887.5	9260.0	9354.3	8037.7
25°	7634.3	7620.3	7478.9	7323.5	7225.7	7382.9	7658.8	8004.5	9352.6	9687.8	8214.0
27.5°	8407.9	8364.2	8207.1	8008.0	7791.5	7859.6	8046.4	8320.6	9495.7	10016.1	8331.0
30°	9157.0	9207.6	8982.4	8746.6	8517.9	8476.0	8584.2	8832.2	9787.4	10400.3	8470.7
32.5°	10150.6	10133.1	9883.4	9576.1	9249.5	9218.1	9303.7	9530.7	10311.2	10931.1	8683.8
35°	11353.7	11357.2	11002.7	10587.1	10122.6	10038.8	10182.0	10402.0	11091.8	11650.5	9020.8
37.5°	12603.9	12598.7	12289.6	11818.2	11184.3	11065.6	11229.7	11393.8	12067.9	12630.1	9544.6
40°	13480.5	13515.5	13370.5	13122.6	12521.9	12232.0	12376.9	12490.4	13129.6	13782.6	10234.4
42.5°	13978.2	14030.6	14062.0	14210.4	13894.4	13585.3	13532.9	13592.3	14077.7	14853.0	10882.2
45°	14084.7	14154.6	14383.3	14933.4	15055.6	14968.3	14797.2	14654.0	14784.9	15612.6	11306.5
47.5°	13615.0	13737.2	14226.2	15188.3	15902.5	16176.6	15986.3	15768.0	15193.5	15808.2	11262.9
50°	11753.6	11896.7	12998.6	14667.9	16023.0	17021.8	17039.3	16716.2	15144.6	15244.2	10714.6
52.5°	9305.4	9403.2	10033.6	12434.6	14840.8	16986.9	17685.3	17339.6	14908.9	14538.7	10028.3
55°	5561.6	5718.7	6307.2	8203.6	11561.5	15055.6	16543.3	16711.0	14793.7	13946.8	9560.4
57.5°	1877.1	1954.0	2516.2	3623.3	6813.6	11023.7	12782.1	13463.1	13429.9	13042.2	8647.1
60°	894.0	911.5	1025.0	1374.2	2727.5	5760.7	7566.2	8352.0	9067.9	9139.5	5380.0
62.5°	681.0	691.5	749.1	824.2	1096.6	2427.2	3467.9	4068.6	4346.2	3729.8	1959.2
65°	569.3	578.0	621.6	668.8	745.6	1051.2	1330.6	1534.9	1383.0	1077.4	934.2
67.5°	475.0	481.9	515.1	565.8	618.1	703.7	738.6	759.6	796.3	894.0	859.1
70°	371.9	378.9	413.8	457.5	508.1	529.1	562.3	583.2	656.6	782.3	778.8
72.5°	286.4	295.1	314.3	342.3	384.2	405.1	441.8	466.2	508.1	609.4	651.3
75°	209.5	214.8	232.2	241.0	246.2	241.0	277.6	305.6	361.5	399.9	410.4
77.5°	85.6	96.0	92.5	92.5	110.0	132.7	151.9	169.4	207.8	230.5	232.2
80°	34.9	38.4	45.4	50.6	61.1	78.6	90.8	97.8	115.2	129.2	139.7
82.5°	21.0	22.7	26.2	27.9	34.9	45.4	52.4	57.6	71.6	85.6	90.8
85°	10.5	10.5	12.2	14.0	17.5	21.0	24.4	27.9	36.7	45.4	50.6
87.5°	1.7	1.7	1.7	3.5	5.2	7.0	8.7	10.5	12.2	14.0	17.5
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°	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6	6579.6
2.5°	6583.1	6488.8	6378.8	6291.5	6190.2	6115.1	6008.6	5942.3	5879.4	5827.0	5788.6
5°	6590.1	6431.2	6202.4	5999.9	5790.3	5591.3	5387.0	5221.1	5072.7	4948.7	4938.2
7.5°	6630.3	6401.5	6043.5	5689.1	5280.5	4885.8	4491.2	4169.9	3925.4	3797.9	3771.8
10°	6698.4	6398.0	5881.1	5315.4	4618.7	3983.0	3515.1	3270.6	3129.2	3078.5	3061.1
12.5°	6770.0	6389.3	5673.3	4788.0	3820.6	3263.6	3006.9	2977.2	3003.4	3006.9	3005.2
15°	6857.3	6384.0	5411.4	4169.9	3237.4	2930.1	2947.6	3010.4	3071.5	3085.5	3085.5
17.5°	6963.8	6371.8	5055.2	3565.7	2872.5	2865.5	2958.0	3041.9	3099.5	3110.0	3110.0
20°	7075.5	6340.4	4616.9	3073.3	2724.0	2825.3	2924.9	2989.5	3029.6	3043.6	3045.3
22.5°	7152.4	6256.6	4112.3	2708.3	2631.5	2748.5	2820.1	2886.4	2886.4	2851.5	2841.0
25°	7168.1	6076.7	3565.7	2458.6	2521.5	2629.8	2703.1	2664.7	2593.1	2565.1	2563.4
27.5°	7110.5	5814.8	3026.1	2280.5	2388.8	2497.0	2484.8	2428.9	2397.5	2369.6	2380.0
30°	7040.6	5500.5	2558.2	2133.8	2235.1	2341.6	2299.7	2280.5	2257.8	2226.4	2233.4
32.5°	6993.5	5149.5	2198.4	2020.3	2132.1	2149.6	2179.2	2177.5	2156.5	2097.2	2093.7
35°	7007.4	4795.0	1957.5	1927.8	2046.5	2039.5	2095.4	2084.9	1940.0	1857.9	1852.7
37.5°	7119.2	4454.5	1816.0	1854.4	1910.3	1954.0	2002.9	1877.1	1826.5	1774.1	1777.6
40°	7332.2	4138.5	1739.2	1814.3	1828.3	1892.9	1779.4	1777.6	1754.9	1707.8	1706.0
42.5°	7573.2	3871.3	1686.8	1795.1	1775.9	1788.1	1667.6	1681.6	1679.8	1650.1	1641.4
45°	7719.9	3625.1	1644.9	1723.5	1728.7	1606.5	1569.8	1585.5	1594.3	1578.5	1576.8
47.5°	7568.0	3342.2	1601.2	1613.5	1658.9	1524.4	1479.0	1480.8	1496.5	1498.2	1491.2
50°	7141.9	3026.1	1548.9	1519.2	1489.5	1438.9	1396.9	1388.2	1403.9	1419.6	1424.9
52.5°	6591.8	2724.0	1461.6	1416.2	1346.3	1346.3	1327.1	1299.2	1320.1	1341.1	1348.1
55°	6188.5	2500.5	1337.6	1286.9	1210.1	1236.3	1232.8	1208.4	1236.3	1252.0	1257.3
57.5°	5362.5	2009.9	1176.9	1161.2	1096.6	1128.0	1135.0	1103.6	1089.6	1093.1	1098.3
60°	3183.3	1297.4	1061.7	1059.9	1002.3	1039.0	1059.9	1028.5	986.6	991.8	998.8
62.5°	1428.4	991.8	916.7	909.8	908.0	955.2	977.9	948.2	888.8	894.0	901.0
65°	899.3	857.4	796.3	796.3	824.2	864.4	881.8	857.4	789.3	780.5	787.5
67.5°	834.7	798.0	735.1	722.9	736.9	770.1	771.8	724.7	684.5	677.5	677.5
70°	749.1	721.2	660.1	635.6	630.4	628.6	623.4	611.2	585.0	578.0	581.5
72.5°	619.9	600.7	562.3	536.1	522.1	520.4	499.4	488.9	466.2	462.7	461.0
75°	410.4	415.6	415.6	412.1	399.9	394.6	371.9	361.5	335.3	324.8	323.0
77.5°	242.7	248.0	254.9	256.7	254.9	254.9	234.0	221.8	195.6	181.6	178.1
80°	148.4	151.9	155.4	160.6	153.7	148.4	129.2	117.0	104.8	96.0	94.3
82.5°	96.0	99.5	101.3	104.8	101.3	94.3	78.6	71.6	62.9	55.9	54.1
85°	54.1	55.9	59.4	59.4	54.1	48.9	40.2	34.9	29.7	26.2	26.2
87.5°	19.2	19.2	19.2	21.0	17.5	15.7	10.5	7.0	5.2	5.2	5.2
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)