

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: P638243

Luminaire Tested: GWS-SA4E-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638243  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

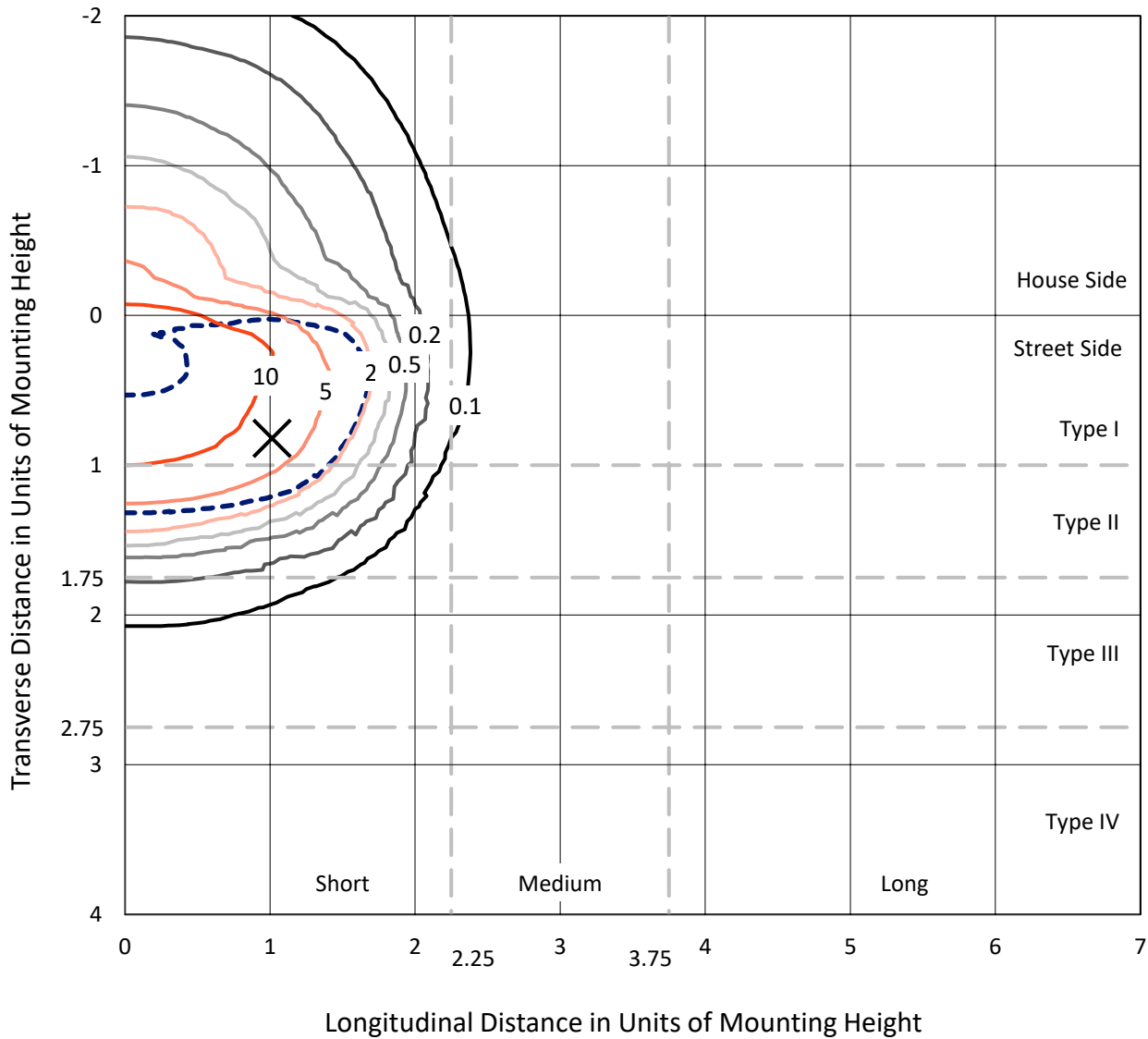
Lumens per Lamp: N/A  
Luminaire Lumens: 27762.7 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

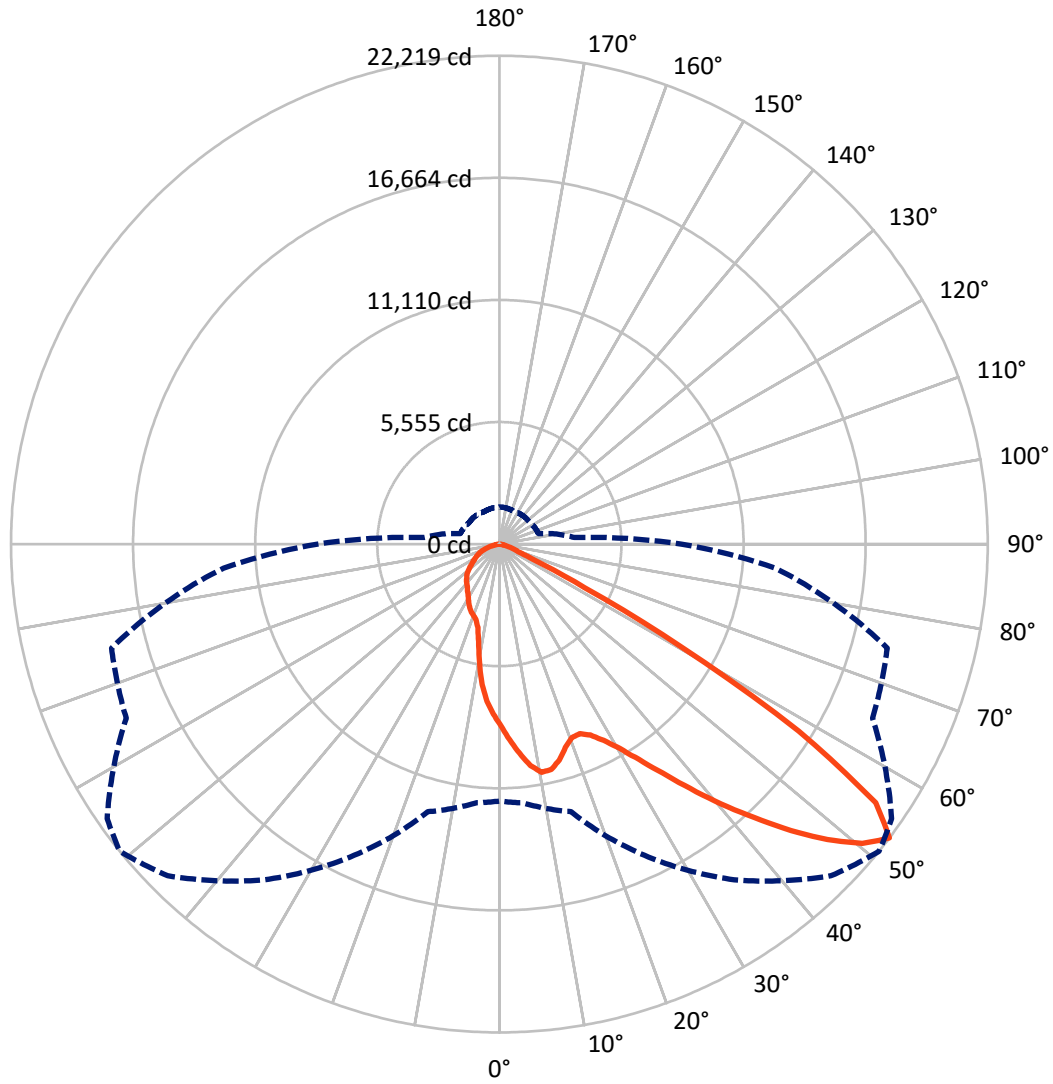
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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	5409.3	0.0	5409.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	22353.4	0.0	22353.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	27762.7	0.0	27762.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	771.4	2.8
10°-20°	2004.3	7.2
20°-30°	3258.8	11.7
30°-40°	5164.5	18.6
40°-50°	7789.2	28.1
50°-60°	6738.3	24.3
60°-70°	1527.6	5.5
70°-80°	450.4	1.6
80°-90°	58.0	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°	27762.7	100.0
0°-180°	27762.7	100.0

**Coefficient of Utilization**



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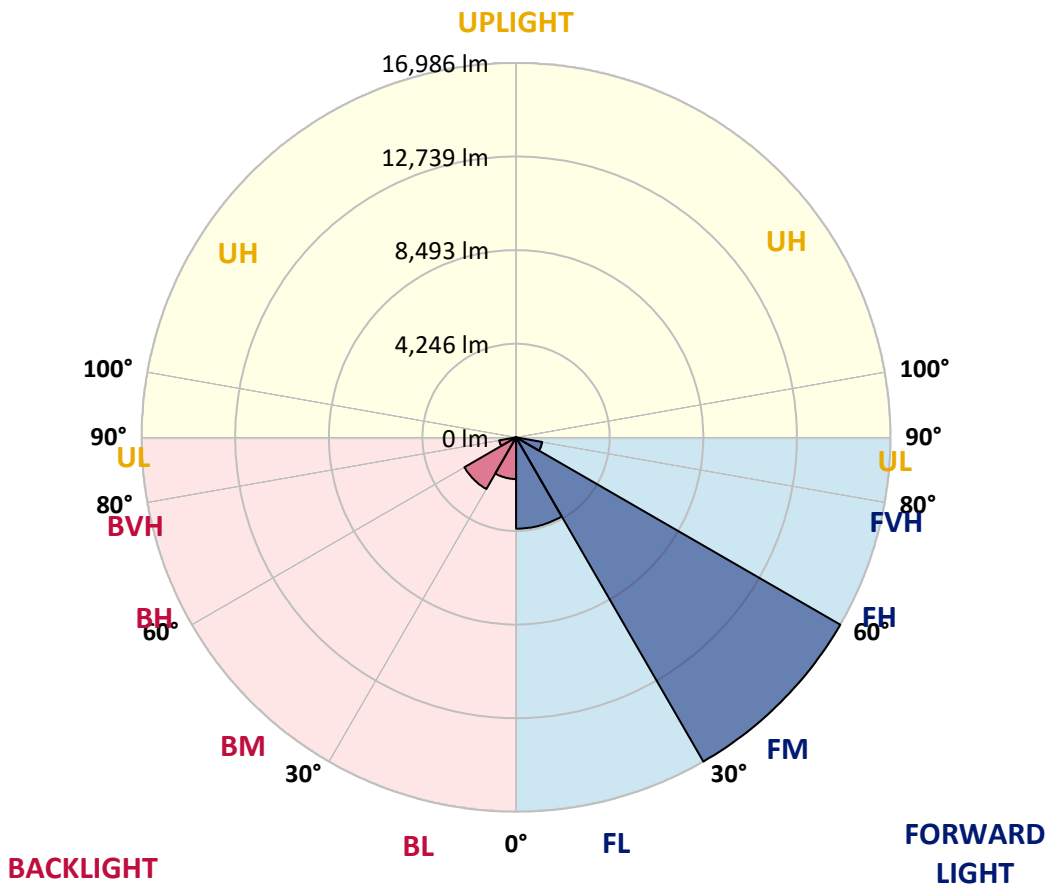
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4143.7	14.9			
FM (30°-60°)	16985.6	61.2			
FH (60°-80°)	1202.2	4.3			G1/1800
FVH (80°-90°)	21.9	0.1			G1/100
BL (0°-30°)	1890.9	6.8	B3/2500		
BM (30°-60°)	2706.5	9.7	B3/5000		
BH (60°-80°)	775.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	36.2	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°	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3
2.5°	9211.9	9264.5	9183.4	9152.6	9102.2	9014.4	8913.5	8885.0	8667.8	8525.2	8365.1
5°	10137.7	10166.2	10100.4	10034.6	9909.5	9753.8	9558.5	9516.8	9121.9	8795.1	8455.0
7.5°	10343.9	10332.9	10390.0	10427.3	10411.9	10350.5	10177.2	10096.0	9624.3	9106.6	8604.2
10°	9527.8	9466.4	9677.0	9927.1	10227.6	10574.2	10554.5	10547.9	10137.7	9525.6	8795.1
12.5°	8446.2	8415.5	8586.6	8900.4	9468.6	10236.4	10523.8	10747.6	10600.6	9924.9	9007.9
15°	7827.6	7816.6	7932.9	8158.8	8610.8	9580.4	10194.7	10637.9	10997.7	10352.7	9233.8
17.5°	7715.7	7722.3	7761.8	7891.2	8215.9	9014.4	9725.2	10343.9	11307.0	10822.1	9516.8
20°	8042.6	8086.4	8018.4	8038.2	8213.7	8810.4	9404.9	10047.7	11504.4	11293.8	9821.8
22.5°	8768.7	8753.4	8604.2	8516.4	8518.6	8935.5	9369.8	9909.5	11633.9	11752.3	10098.2
25°	9591.4	9573.9	9396.2	9200.9	9078.1	9275.5	9622.1	10056.5	11750.1	12171.4	10319.8
27.5°	10563.3	10508.4	10311.0	10060.9	9788.9	9874.4	10109.2	10453.6	11930.0	12583.8	10466.7
30°	11504.4	11568.1	11285.0	10988.9	10701.5	10648.8	10784.9	11096.4	12296.4	13066.4	10642.3
32.5°	12752.7	12730.8	12417.1	12030.9	11620.7	11581.2	11688.7	11973.9	12954.5	13733.4	10909.9
35°	14264.3	14268.7	13823.3	13301.2	12717.6	12612.3	12792.2	13068.6	13935.2	14637.2	11333.3
37.5°	15835.0	15828.5	15440.2	14847.8	14051.5	13902.3	14108.5	14314.7	15161.5	15868.0	11991.5
40°	16936.3	16980.2	16798.1	16486.6	15731.9	15367.8	15549.8	15692.4	16495.4	17315.9	12858.0
42.5°	17561.6	17627.4	17666.9	17853.4	17456.3	17068.0	17002.2	17076.8	17686.6	18660.7	13671.9
45°	17695.4	17783.2	18070.6	18761.6	18915.2	18805.5	18590.5	18410.6	18575.1	19615.0	14205.0
47.5°	17105.3	17258.8	17873.1	19081.9	19979.2	20323.6	20084.5	19810.3	19088.5	19860.7	14150.2
50°	14766.7	14946.5	16330.8	18428.1	20130.6	21385.4	21407.4	21001.5	19027.1	19152.1	13461.3
52.5°	11690.9	11813.8	12605.7	15622.2	18645.3	21341.6	22219.1	21784.7	18730.9	18265.8	12599.1
55°	6987.3	7184.8	7924.1	10306.6	14525.3	18915.2	20784.3	20994.9	18586.1	17522.1	12011.2
57.5°	2358.4	2454.9	3161.3	4552.2	8560.3	13849.6	16058.8	16914.4	16872.7	16385.7	10863.8
60°	1123.2	1145.2	1287.8	1726.5	3426.8	7237.4	9505.9	10493.1	11392.5	11482.5	6759.2
62.5°	855.6	868.8	941.2	1035.5	1377.7	3049.4	4356.9	5111.6	5460.4	4686.0	2461.5
65°	715.2	726.2	781.0	840.2	936.8	1320.7	1671.7	1928.4	1737.5	1353.6	1173.7
67.5°	596.7	605.5	647.2	710.8	776.6	884.1	928.0	954.3	1000.4	1123.2	1079.4
70°	467.3	476.1	519.9	574.8	638.4	664.7	706.4	732.7	824.9	982.8	978.4
72.5°	359.8	370.8	394.9	430.0	482.6	509.0	555.0	585.8	638.4	765.6	818.3
75°	263.3	269.8	291.8	302.7	309.3	302.7	348.8	383.9	454.1	502.4	515.5
77.5°	107.5	120.7	116.3	116.3	138.2	166.7	190.9	212.8	261.1	289.6	291.8
80°	43.9	48.3	57.0	63.6	76.8	98.7	114.1	122.9	144.8	162.3	175.5
82.5°	26.3	28.5	32.9	35.1	43.9	57.0	65.8	72.4	89.9	107.5	114.1
85°	13.2	13.2	15.4	17.6	21.9	26.3	30.7	35.1	46.1	57.0	63.6
87.5°	2.2	2.2	2.2	4.4	6.6	8.8	11.0	13.2	15.4	17.6	21.9
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°	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3	8266.3
2.5°	8270.7	8152.3	8014.1	7904.4	7777.1	7682.8	7549.0	7465.6	7386.6	7320.8	7272.5
5°	8279.5	8079.9	7792.5	7538.0	7274.7	7024.6	6768.0	6559.5	6373.1	6217.3	6204.1
7.5°	8330.0	8042.6	7592.8	7147.5	6634.1	6138.3	5642.5	5238.9	4931.7	4771.6	4738.7
10°	8415.5	8038.2	7388.8	6678.0	5802.7	5004.1	4416.2	4109.0	3931.3	3867.7	3845.8
12.5°	8505.5	8027.2	7127.7	6015.5	4800.1	4100.3	3777.8	3740.5	3773.4	3777.8	3775.6
15°	8615.2	8020.6	6798.7	5238.9	4067.4	3681.2	3703.2	3782.2	3858.9	3876.5	3876.5
17.5°	8749.0	8005.3	6351.1	4479.8	3608.8	3600.1	3716.3	3821.6	3894.0	3907.2	3907.2
20°	8889.4	7965.8	5800.5	3861.1	3422.4	3549.6	3674.7	3755.8	3806.3	3823.8	3826.0
22.5°	8985.9	7860.5	5166.5	3402.6	3306.1	3453.1	3543.0	3626.4	3626.4	3582.5	3569.4
25°	9005.7	7634.5	4479.8	3088.9	3167.9	3303.9	3396.0	3347.8	3257.8	3222.7	3220.5
27.5°	8933.3	7305.4	3801.9	2865.1	3001.2	3137.2	3121.8	3051.6	3012.1	2977.0	2990.2
30°	8845.5	6910.6	3214.0	2680.9	2808.1	2941.9	2889.3	2865.1	2836.6	2797.1	2805.9
32.5°	8786.3	6469.6	2762.0	2538.3	2678.7	2700.6	2737.9	2735.7	2709.4	2634.8	2630.4
35°	8803.8	6024.2	2459.3	2422.0	2571.2	2562.4	2632.6	2619.4	2437.3	2334.2	2327.7
37.5°	8944.2	5596.5	2281.6	2329.8	2400.0	2454.9	2516.3	2358.4	2294.7	2228.9	2233.3
40°	9211.9	5199.4	2185.1	2279.4	2296.9	2378.1	2235.5	2233.3	2204.8	2145.6	2143.4
42.5°	9514.6	4863.7	2119.2	2255.3	2231.1	2246.5	2095.1	2112.7	2110.5	2073.2	2062.2
45°	9698.9	4554.4	2066.6	2165.3	2171.9	2018.3	1972.3	1992.0	2003.0	1983.2	1981.0
47.5°	9508.0	4199.0	2011.7	2027.1	2084.1	1915.2	1858.2	1860.4	1880.1	1882.3	1873.5
50°	8972.8	3801.9	1945.9	1908.6	1871.3	1807.7	1755.1	1744.1	1763.8	1783.6	1790.2
52.5°	8281.7	3422.4	1836.2	1779.2	1691.4	1691.4	1667.3	1632.2	1658.5	1684.9	1693.6
55°	7774.9	3141.6	1680.5	1616.9	1520.3	1553.2	1548.8	1518.1	1553.2	1573.0	1579.6
57.5°	6737.2	2525.1	1478.6	1458.9	1377.7	1417.2	1426.0	1386.5	1368.9	1373.3	1379.9
60°	3999.3	1630.0	1333.8	1331.7	1259.3	1305.3	1331.7	1292.2	1239.5	1246.1	1254.9
62.5°	1794.6	1246.1	1151.8	1143.0	1140.8	1200.0	1228.5	1191.2	1116.7	1123.2	1132.0
65°	1129.8	1077.2	1000.4	1000.4	1035.5	1085.9	1107.9	1077.2	991.6	980.6	989.4
67.5°	1048.6	1002.6	923.6	908.2	925.8	967.5	969.7	910.4	860.0	851.2	851.2
70°	941.2	906.1	829.3	798.6	792.0	789.8	783.2	767.8	734.9	726.2	730.5
72.5°	778.8	754.7	706.4	673.5	656.0	653.8	627.4	614.3	585.8	581.4	579.2
75°	515.5	522.1	522.1	517.7	502.4	495.8	467.3	454.1	421.2	408.1	405.9
77.5°	304.9	311.5	320.3	322.5	320.3	320.3	294.0	278.6	245.7	228.2	223.8
80°	186.5	190.9	195.3	201.8	193.1	186.5	162.3	147.0	131.6	120.7	118.5
82.5°	120.7	125.0	127.2	131.6	127.2	118.5	98.7	89.9	79.0	70.2	68.0
85°	68.0	70.2	74.6	74.6	68.0	61.4	50.5	43.9	37.3	32.9	32.9
87.5°	24.1	24.1	24.1	26.3	21.9	19.7	13.2	8.8	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)