

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: P632567

Luminaire Tested: GWS-SA2C-830-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-830-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

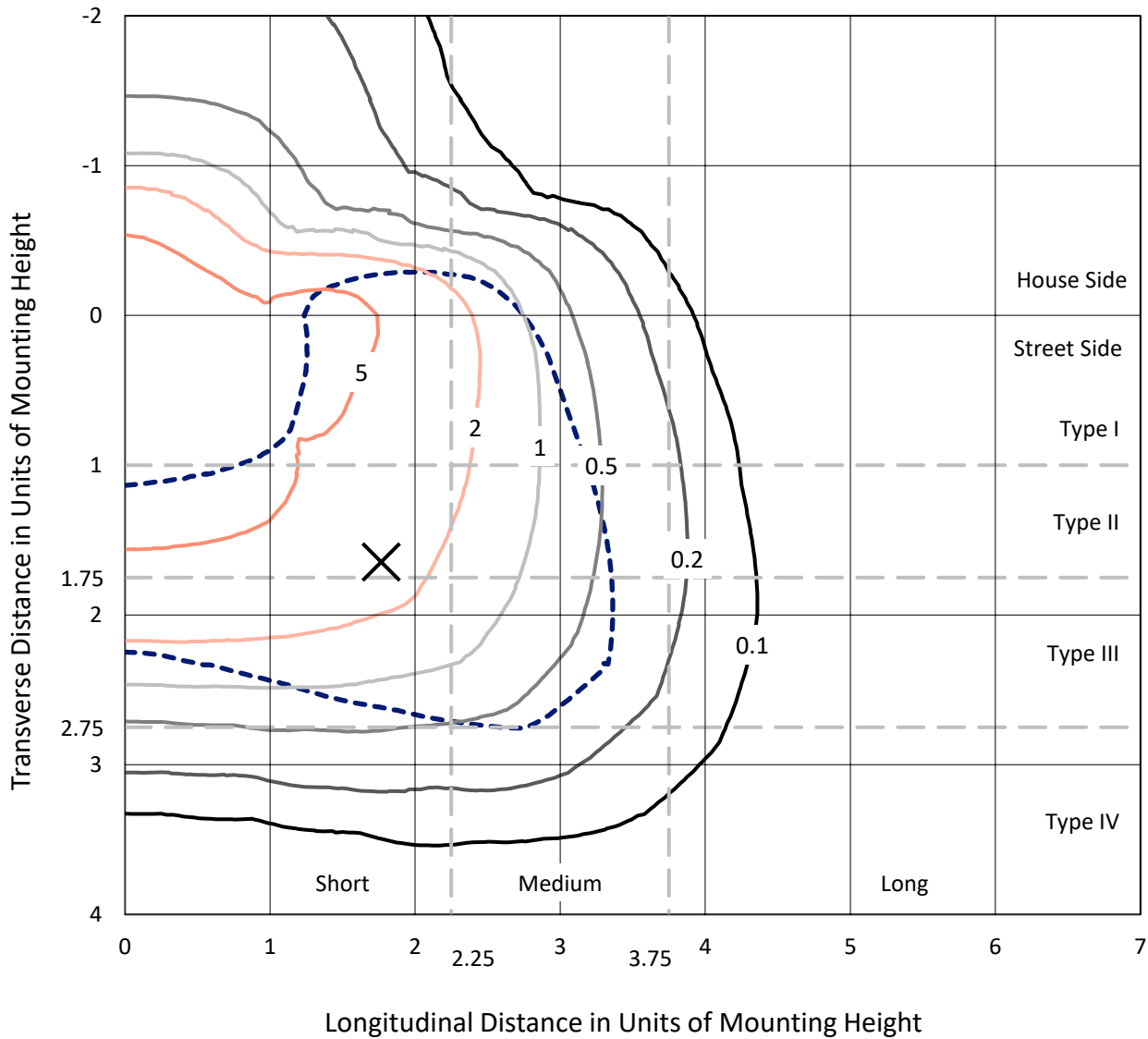
Lumens per Lamp: N/A  
Luminaire Lumens: 7289.3 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): 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

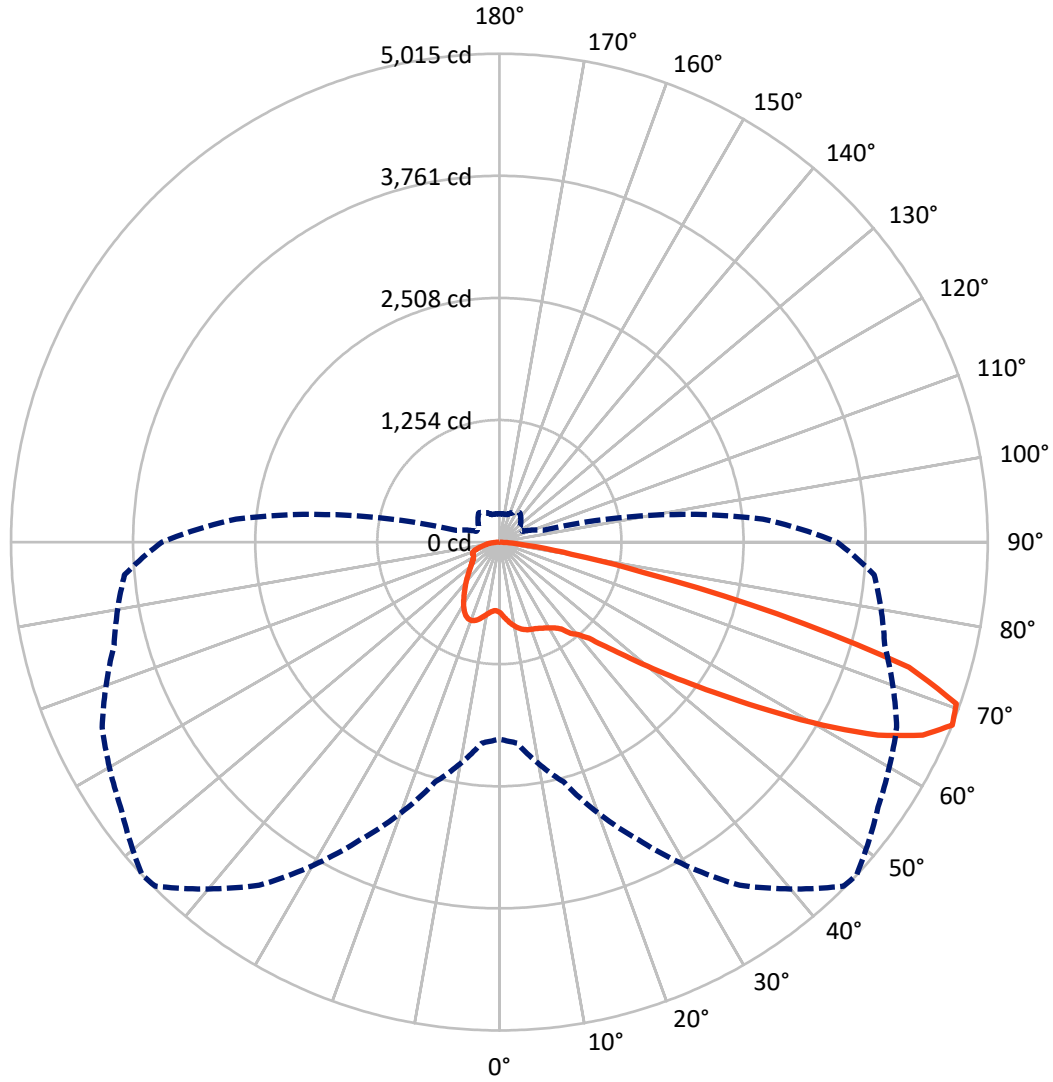
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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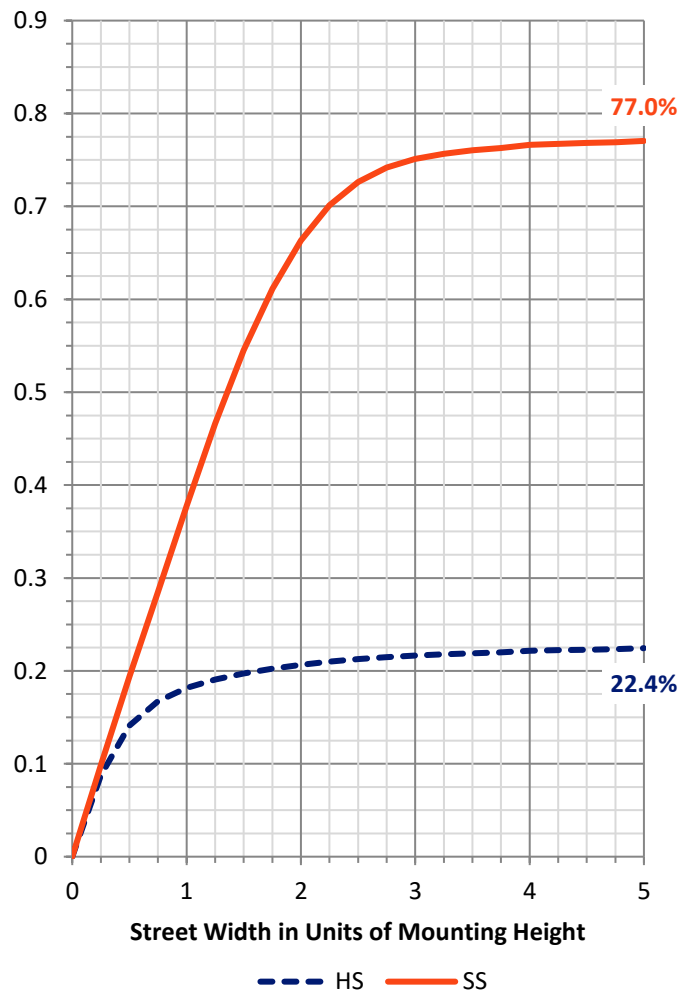
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1661.3	0.0	1661.3
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	5628.0	0.0	5628.0
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	7289.3	0.0	7289.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	1.0
10°-20°	246.0	3.4
20°-30°	418.2	5.7
30°-40°	612.6	8.4
40°-50°	933.4	12.8
50°-60°	1670.1	22.9
60°-70°	2228.5	30.6
70°-80°	1007.8	13.8
80°-90°	98.7	1.4
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°	7289.3	100.0
0°-180°	7289.3	100.0

**Coefficient of Utilization**



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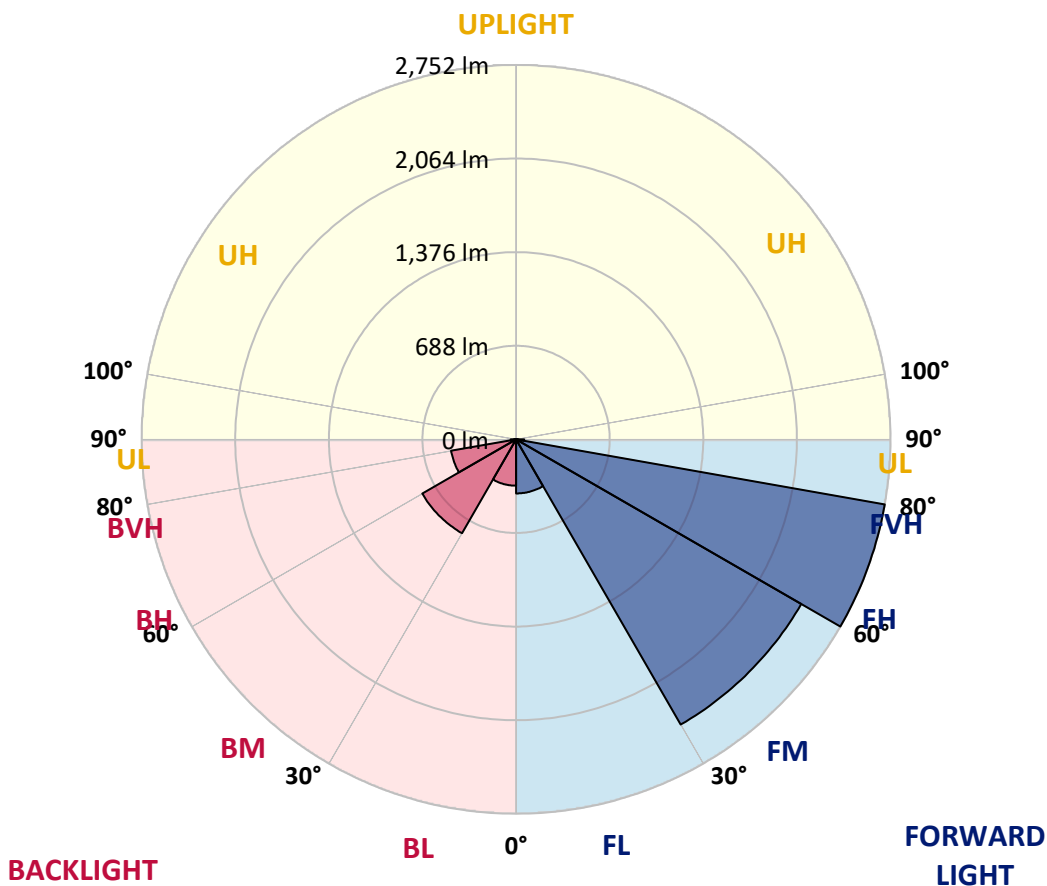
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.5	5.5			
FM (30°-60°)	2420.1	33.2			
FH (60°-80°)	2751.6	37.7			G2/5000
FVH (80°-90°)	58.7	0.8			G1/100
BL (0°-30°)	340.6	4.7	B1/500		
BM (30°-60°)	796.0	10.9	B1/1000		
BH (60°-80°)	484.7	6.6	B1/500		G1/500
BVH (80°-90°)	40.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	770.6	773.2	772.7	768.5	765.8	761.1	761.6	754.2	743.2	735.8	727.3
5°	838.6	842.8	837.5	830.6	820.1	804.8	803.2	786.4	765.3	750.5	735.2
7.5°	897.6	900.2	893.9	882.3	867.0	846.5	842.8	822.7	796.4	773.2	751.1
10°	943.4	946.6	938.2	922.9	902.9	882.3	879.7	859.1	831.2	803.8	775.8
12.5°	982.4	983.5	974.5	954.0	932.4	911.3	908.7	889.7	863.9	835.9	805.3
15°	1005.1	1005.6	994.6	971.9	951.3	932.9	931.3	915.0	891.3	864.9	832.2
17.5°	1003.5	1004.6	996.7	976.6	958.7	947.7	946.1	935.5	917.1	893.4	860.7
20°	984.0	985.1	979.8	966.6	957.1	954.0	954.5	951.3	940.3	920.8	887.6
22.5°	968.7	970.3	965.6	956.1	955.0	962.4	964.0	965.6	960.3	942.9	910.8
25°	976.1	978.8	971.4	958.2	960.3	976.6	979.8	985.1	980.9	966.1	938.2
27.5°	1027.2	1028.8	1009.8	983.0	976.6	994.0	998.8	1007.2	1004.1	990.3	968.7
30°	1145.8	1144.8	1104.2	1038.3	1012.0	1018.8	1022.5	1034.6	1035.7	1026.7	1006.2
32.5°	1312.9	1307.6	1244.9	1140.0	1063.6	1046.7	1051.0	1067.3	1079.4	1069.9	1042.0
35°	1489.5	1484.7	1415.7	1292.9	1159.0	1100.5	1095.8	1108.4	1126.9	1100.5	1060.4
37.5°	1657.6	1650.2	1579.6	1427.8	1276.5	1194.8	1188.0	1175.3	1164.3	1113.7	1083.1
40°	1844.2	1835.8	1774.1	1602.3	1406.2	1267.1	1249.7	1199.6	1189.6	1157.4	1142.1
42.5°	2043.4	2043.4	1992.3	1823.1	1562.7	1370.4	1347.7	1272.3	1282.9	1261.8	1243.9
45°	2242.6	2248.4	2207.9	2045.5	1772.0	1565.4	1529.0	1422.0	1447.3	1437.8	1428.9
47.5°	2412.4	2423.4	2415.5	2272.7	2028.1	1802.5	1747.2	1636.0	1690.3	1712.9	1738.2
50°	2595.2	2607.4	2599.5	2543.1	2328.0	2089.8	2040.3	1925.4	2018.6	2086.6	2169.4
52.5°	2866.7	2884.1	2818.2	2796.6	2692.2	2416.0	2371.8	2241.1	2410.2	2523.0	2707.5
55°	3096.0	3095.4	3072.2	3121.8	3083.3	2815.0	2766.0	2647.4	2863.5	2983.2	3253.0
57.5°	3202.4	3215.1	3294.7	3434.9	3511.8	3302.6	3255.7	3134.4	3350.0	3412.2	3703.7
60°	3257.2	3273.0	3426.9	3704.2	3911.3	3834.9	3816.4	3662.0	3783.2	3775.9	4083.7
62.5°	3180.3	3211.9	3459.1	3827.5	4196.5	4369.9	4364.1	4130.6	4151.7	4079.5	4319.3
65°	2827.2	2861.4	3249.3	3765.8	4359.3	4776.8	4778.3	4554.9	4434.7	4227.0	4279.7
67.5°	2021.8	2070.8	2550.4	3369.5	4301.9	4996.5	5015.0	4747.2	4501.1	4096.3	3864.4
70°	1102.1	1137.9	1513.7	2449.3	3784.3	4943.8	4978.1	4654.5	4208.1	3543.4	2974.7
72.5°	500.7	512.3	704.2	1344.0	2585.2	4255.5	4398.8	4153.8	3455.9	2617.4	1891.6
75°	229.3	234.5	306.7	643.0	1350.9	2847.7	2948.4	3093.8	2405.0	1652.9	986.1
77.5°	143.9	145.5	174.5	294.1	673.6	1421.5	1527.4	1842.1	1408.3	818.0	412.2
80°	84.9	86.4	108.6	159.2	316.2	650.4	751.1	728.4	662.0	353.1	187.6
82.5°	42.7	44.3	62.7	90.7	172.3	258.8	304.6	306.2	246.7	191.3	105.9
85°	15.3	15.8	20.6	35.8	73.3	85.4	95.4	116.5	120.7	111.2	51.1
87.5°	0.0	0.0	0.5	1.1	2.1	8.4	9.0	16.9	35.3	39.5	20.6
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°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	724.7	716.8	714.2	711.5	707.3	705.7	702.6	699.4	699.4	696.2	694.7
5°	728.4	717.9	711.0	707.8	705.2	706.8	706.8	707.8	711.5	709.4	710.5
7.5°	741.6	729.5	720.0	717.3	717.3	723.7	727.9	733.1	740.0	741.0	741.0
10°	764.8	750.5	740.5	738.9	741.6	750.5	756.9	763.2	771.6	772.1	773.2
12.5°	790.1	775.8	765.8	767.9	770.6	782.2	789.0	794.3	802.7	802.7	802.2
15°	816.4	800.6	792.2	796.4	804.3	817.5	818.5	819.1	823.3	822.2	821.7
17.5°	843.8	827.0	820.6	827.0	835.4	841.7	836.4	829.1	827.5	825.4	824.3
20°	870.7	853.3	850.7	855.4	858.1	852.8	836.4	822.7	816.4	813.3	812.2
22.5°	893.9	879.1	877.6	877.6	864.4	845.9	821.7	803.2	794.8	790.6	789.5
25°	921.3	907.6	905.0	890.7	857.0	823.3	790.6	773.7	766.9	764.8	765.3
27.5°	953.5	944.0	935.5	894.9	835.9	783.2	746.3	738.9	736.3	738.9	740.5
30°	993.0	983.5	964.5	889.7	802.2	731.0	695.7	695.2	703.1	710.0	711.0
32.5°	1025.1	1020.9	989.8	872.8	754.8	673.6	643.5	645.6	659.9	669.4	670.9
35°	1050.4	1057.3	1010.9	844.9	698.4	619.3	595.6	596.6	604.5	617.7	618.2
37.5°	1086.3	1109.5	1029.9	802.2	633.5	572.4	550.8	542.9	541.8	545.5	546.6
40°	1158.5	1193.3	1043.6	740.0	570.8	530.2	506.0	490.7	477.5	467.5	464.3
42.5°	1267.6	1307.6	1051.5	664.6	514.9	488.6	461.2	441.7	418.5	397.4	390.0
45°	1467.9	1481.0	1051.5	584.5	465.4	449.6	422.2	399.0	369.5	344.7	339.4
47.5°	1788.3	1746.2	1052.5	507.0	421.6	415.3	391.6	365.3	332.6	312.0	308.9
50°	2271.1	2123.0	1074.1	442.7	385.3	386.3	368.9	340.0	310.4	295.2	292.5
52.5°	2818.2	2587.3	1132.1	395.3	354.7	362.6	353.1	325.2	298.8	285.7	283.0
55°	3332.6	3014.3	1181.7	361.6	328.9	342.6	342.1	316.2	292.5	279.3	277.8
57.5°	3770.1	3306.8	1174.3	334.2	306.7	324.1	332.0	310.4	288.3	277.2	275.7
60°	4042.0	3461.7	1069.4	308.9	289.9	311.0	326.3	308.9	290.4	287.8	288.3
62.5°	4160.1	3433.3	868.1	289.9	278.8	304.6	332.6	319.9	309.9	316.2	319.9
65°	3976.7	3188.7	638.8	275.7	268.3	306.2	347.3	337.3	309.9	314.1	315.7
67.5°	3467.5	2714.4	461.7	261.4	255.1	311.0	368.4	334.7	292.0	292.0	288.8
70°	2498.8	1952.2	335.2	247.2	241.9	304.1	369.5	316.8	271.4	269.9	261.9
72.5°	1503.7	1151.6	261.4	231.4	221.9	269.9	346.3	295.7	251.4	238.2	228.7
75°	781.1	577.1	219.3	214.0	190.3	228.7	316.8	263.0	215.0	203.4	198.2
77.5°	334.7	269.9	188.2	190.8	158.1	192.4	255.6	227.7	190.8	176.0	171.3
80°	165.0	153.4	148.6	152.8	126.5	148.6	220.3	199.2	161.8	144.9	138.1
82.5°	94.3	89.6	107.0	108.6	90.1	124.4	186.1	168.7	133.9	115.4	104.4
85°	43.7	46.9	64.8	65.4	55.9	85.4	121.8	94.9	71.2	59.0	56.4
87.5°	17.4	20.6	28.5	27.9	16.3	15.8	10.5	5.8	4.7	4.2	3.7
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)