

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: P629280

Luminaire Tested: GWS-SA1B-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629280  
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-SA1B-735-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

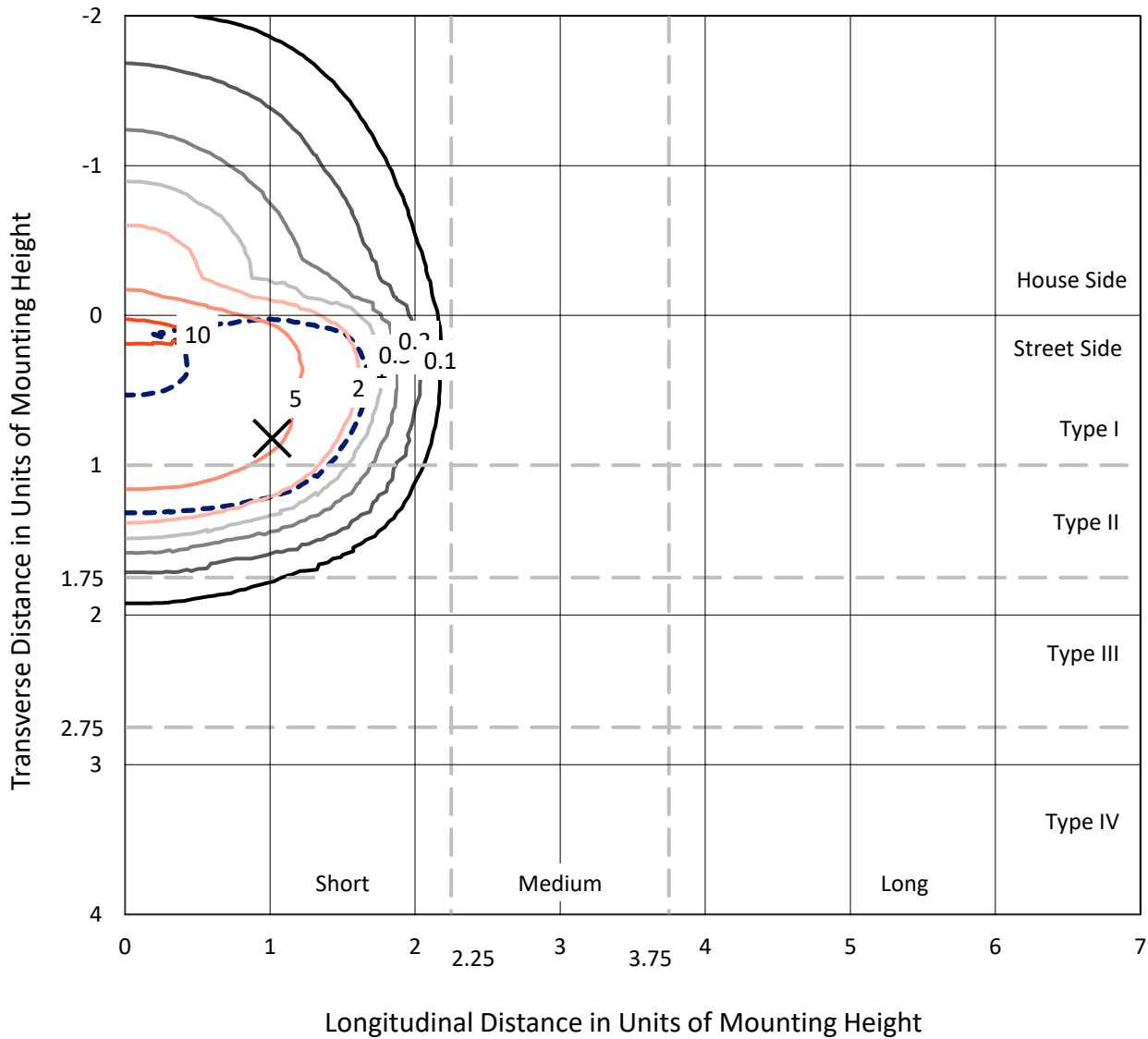
Lumens per Lamp: N/A  
Luminaire Lumens: 3206.9 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

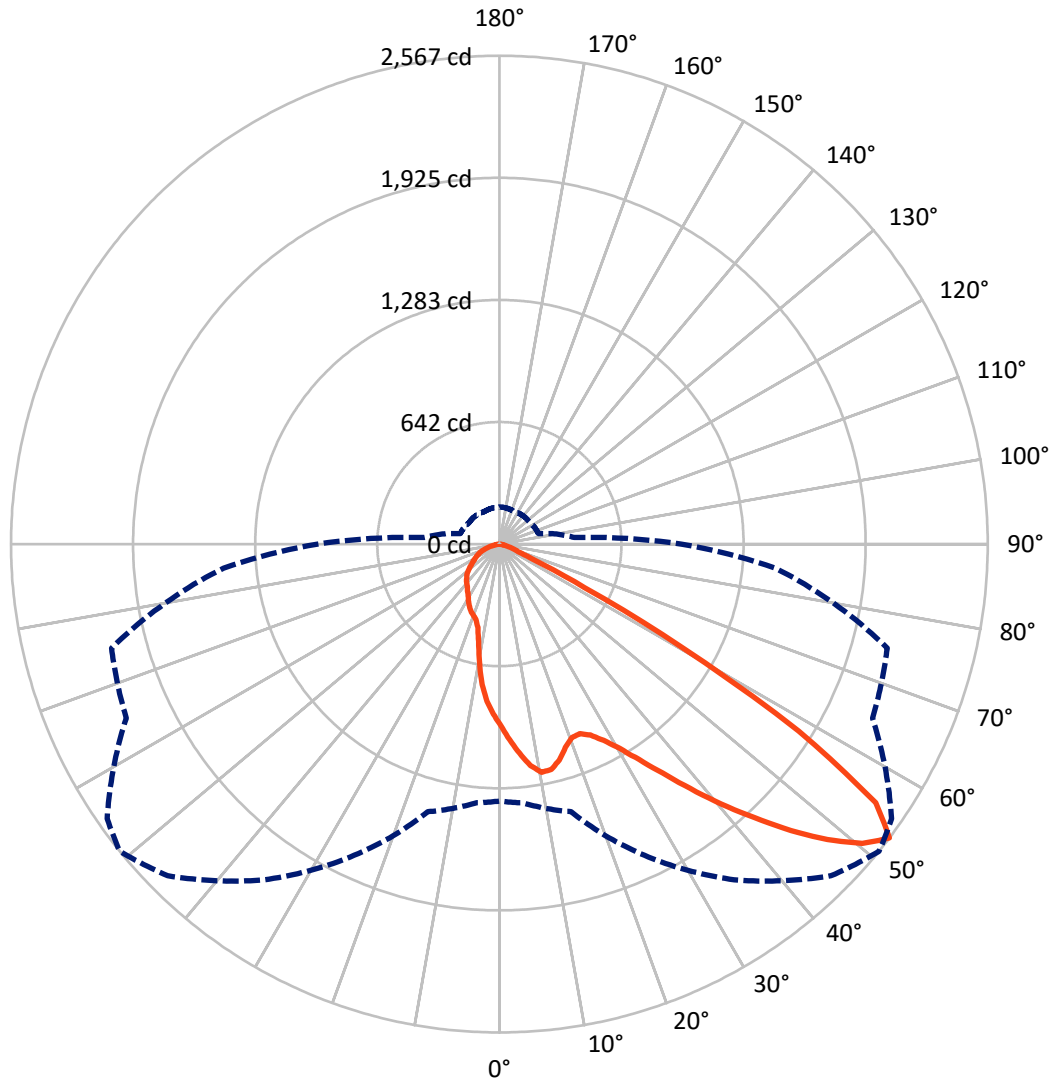
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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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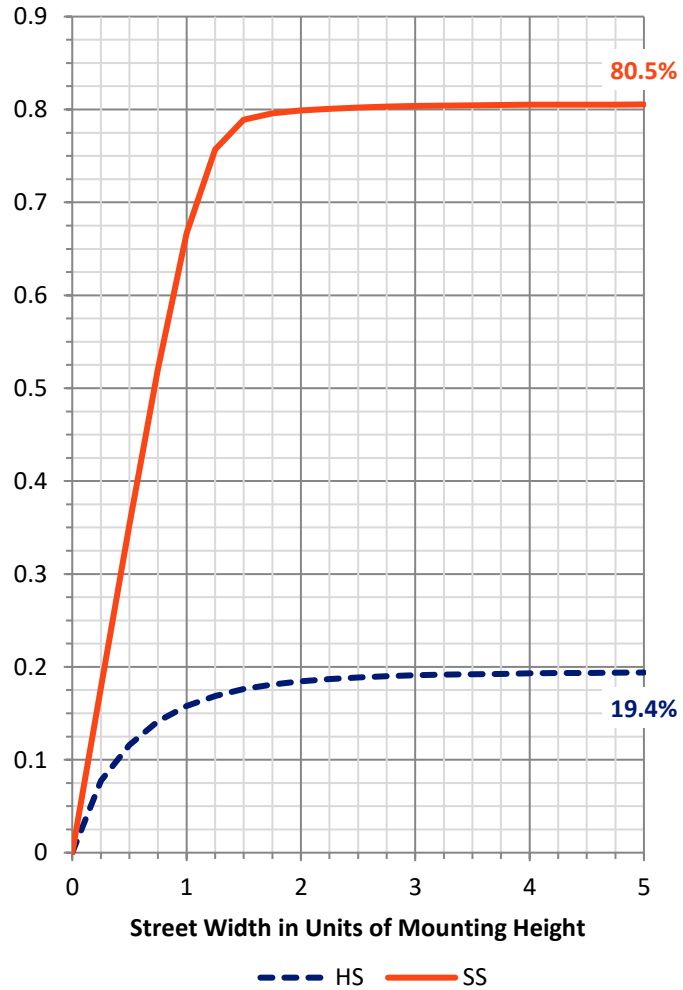
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	624.8	0.0	624.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	2582.1	0.0	2582.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3206.9	0.0	3206.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	2.8
10°-20°	231.5	7.2
20°-30°	376.4	11.7
30°-40°	596.6	18.6
40°-50°	899.7	28.1
50°-60°	778.3	24.3
60°-70°	176.5	5.5
70°-80°	52.0	1.6
80°-90°	6.7	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°	3206.9	100.0
0°-180°	3206.9	100.0

**Coefficient of Utilization**



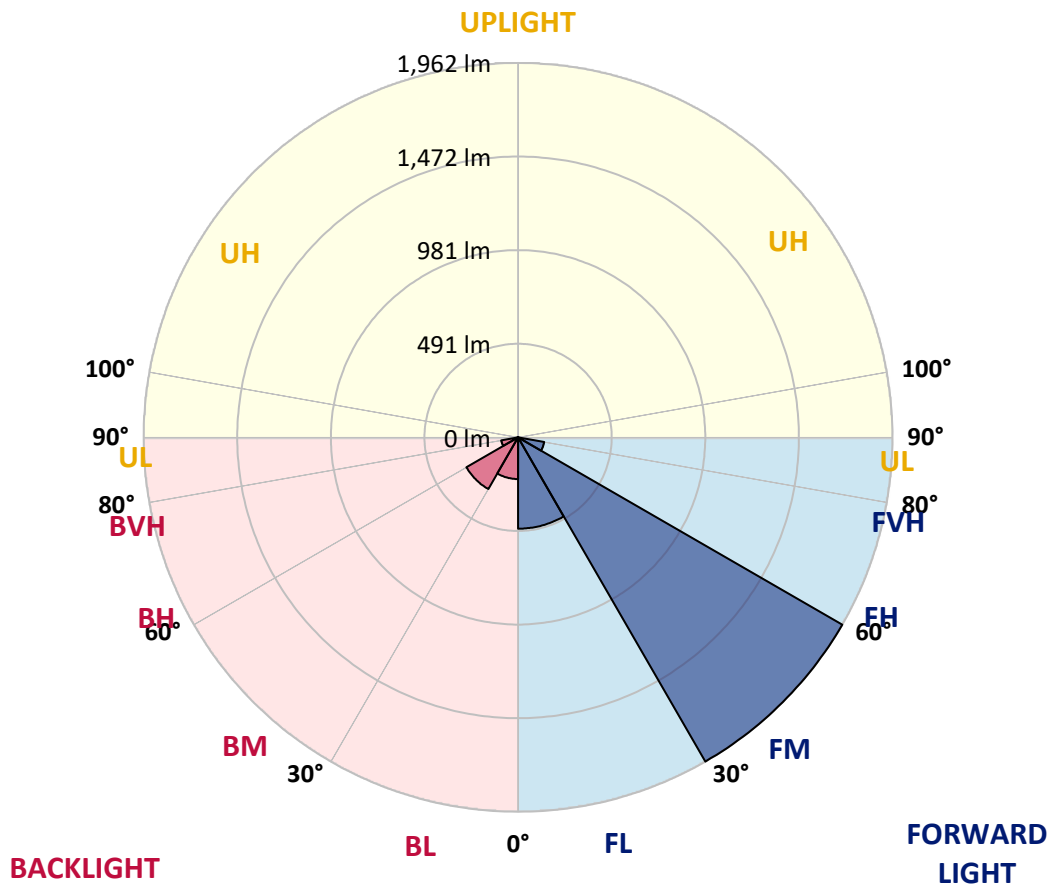
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	478.6	14.9			
FM (30°-60°)	1962.0	61.2			
FH (60°-80°)	138.9	4.3			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	218.4	6.8	B1/500		
BM (30°-60°)	312.6	9.7	B1/1000		
BH (60°-80°)	89.6	2.8	B0/110		G0/110
BVH (80°-90°)	4.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9
2.5°	1064.1	1070.2	1060.8	1057.2	1051.4	1041.3	1029.6	1026.3	1001.2	984.8	966.3
5°	1171.0	1174.3	1166.7	1159.1	1144.7	1126.7	1104.1	1099.3	1053.7	1015.9	976.6
7.5°	1194.8	1193.6	1200.2	1204.5	1202.7	1195.6	1175.6	1166.2	1111.7	1051.9	993.9
10°	1100.6	1093.5	1117.8	1146.7	1181.4	1221.4	1219.2	1218.4	1171.0	1100.3	1015.9
12.5°	975.6	972.1	991.9	1028.1	1093.7	1182.4	1215.6	1241.5	1224.5	1146.4	1040.5
15°	904.2	902.9	916.3	942.4	994.6	1106.6	1177.6	1228.8	1270.4	1195.8	1066.6
17.5°	891.2	892.0	896.6	911.5	949.0	1041.3	1123.4	1194.8	1306.1	1250.1	1099.3
20°	929.0	934.1	926.2	928.5	948.8	1017.7	1086.4	1160.6	1328.9	1304.6	1134.5
22.5°	1012.9	1011.1	993.9	983.7	984.0	1032.1	1082.3	1144.7	1343.8	1357.5	1166.5
25°	1107.9	1105.9	1085.4	1062.8	1048.6	1071.4	1111.5	1161.6	1357.3	1405.9	1192.0
27.5°	1220.2	1213.8	1191.0	1162.1	1130.7	1140.6	1167.7	1207.5	1378.1	1453.6	1209.0
30°	1328.9	1336.2	1303.5	1269.3	1236.1	1230.1	1245.8	1281.8	1420.4	1509.3	1229.3
32.5°	1473.1	1470.5	1434.3	1389.7	1342.3	1337.8	1350.2	1383.1	1496.4	1586.4	1260.2
35°	1647.7	1648.2	1596.7	1536.4	1469.0	1456.9	1477.6	1509.6	1609.7	1690.8	1309.1
37.5°	1829.1	1828.4	1783.5	1715.1	1623.1	1605.9	1629.7	1653.5	1751.3	1832.9	1385.1
40°	1956.3	1961.4	1940.4	1904.4	1817.2	1775.1	1796.2	1812.7	1905.4	2000.2	1485.2
42.5°	2028.6	2036.2	2040.7	2062.3	2016.4	1971.5	1963.9	1972.6	2043.0	2155.5	1579.3
45°	2044.0	2054.2	2087.3	2167.2	2184.9	2172.2	2147.4	2126.6	2145.6	2265.8	1640.8
47.5°	1975.8	1993.6	2064.5	2204.2	2307.8	2347.6	2320.0	2288.3	2204.9	2294.1	1634.5
50°	1705.7	1726.5	1886.4	2128.7	2325.3	2470.3	2472.8	2425.9	2197.8	2212.3	1554.9
52.5°	1350.4	1364.6	1456.1	1804.5	2153.7	2465.2	2566.6	2516.4	2163.6	2109.9	1455.3
55°	807.1	829.9	915.3	1190.5	1677.8	2184.9	2400.8	2425.1	2146.9	2024.0	1387.4
57.5°	272.4	283.6	365.2	525.8	988.8	1599.8	1855.0	1953.8	1949.0	1892.7	1254.9
60°	129.7	132.3	148.8	199.4	395.8	836.0	1098.0	1212.1	1316.0	1326.4	780.8
62.5°	98.8	100.4	108.7	119.6	159.1	352.2	503.3	590.4	630.7	541.3	284.3
65°	82.6	83.9	90.2	97.1	108.2	152.6	193.1	222.7	200.7	156.4	135.6
67.5°	68.9	69.9	74.8	82.1	89.7	102.1	107.2	110.2	115.6	129.7	124.7
70°	54.0	55.0	60.1	66.4	73.7	76.8	81.6	84.6	95.3	113.5	113.0
72.5°	41.6	42.8	45.6	49.7	55.8	58.8	64.1	67.7	73.7	88.4	94.5
75°	30.4	31.2	33.7	35.0	35.7	35.0	40.3	44.3	52.5	58.0	59.6
77.5°	12.4	13.9	13.4	13.4	16.0	19.3	22.0	24.6	30.2	33.5	33.7
80°	5.1	5.6	6.6	7.3	8.9	11.4	13.2	14.2	16.7	18.8	20.3
82.5°	3.0	3.3	3.8	4.1	5.1	6.6	7.6	8.4	10.4	12.4	13.2
85°	1.5	1.5	1.8	2.0	2.5	3.0	3.5	4.1	5.3	6.6	7.3
87.5°	0.3	0.3	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.0	2.5
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°	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9	954.9
2.5°	955.4	941.7	925.7	913.0	898.3	887.4	872.0	862.4	853.2	845.6	840.1
5°	956.4	933.3	900.1	870.7	840.3	811.4	781.8	757.7	736.2	718.2	716.6
7.5°	962.2	929.0	877.1	825.6	766.3	709.0	651.8	605.1	569.7	551.2	547.4
10°	972.1	928.5	853.5	771.4	670.3	578.0	510.1	474.6	454.1	446.8	444.2
12.5°	982.5	927.2	823.3	694.9	554.5	473.6	436.4	432.1	435.9	436.4	436.1
15°	995.1	926.5	785.3	605.1	469.8	425.2	427.8	436.9	445.8	447.8	447.8
17.5°	1010.6	924.7	733.6	517.5	416.9	415.8	429.3	441.4	449.8	451.3	451.3
20°	1026.8	920.1	670.0	446.0	395.3	410.0	424.5	433.8	439.7	441.7	441.9
22.5°	1038.0	908.0	596.8	393.0	381.9	398.9	409.3	418.9	418.9	413.8	412.3
25°	1040.3	881.9	517.5	356.8	365.9	381.6	392.3	386.7	376.3	372.3	372.0
27.5°	1031.9	843.9	439.2	331.0	346.7	362.4	360.6	352.5	347.9	343.9	345.4
30°	1021.8	798.2	371.2	309.7	324.4	339.8	333.7	331.0	327.7	323.1	324.1
32.5°	1014.9	747.3	319.0	293.2	309.4	311.9	316.3	316.0	313.0	304.3	303.8
35°	1016.9	695.9	284.1	279.8	297.0	296.0	304.1	302.6	281.5	269.6	268.9
37.5°	1033.2	646.5	263.5	269.1	277.2	283.6	290.7	272.4	265.1	257.5	258.0
40°	1064.1	600.6	252.4	263.3	265.3	274.7	258.2	258.0	254.7	247.8	247.6
42.5°	1099.0	561.8	244.8	260.5	257.7	259.5	242.0	244.0	243.8	239.5	238.2
45°	1120.3	526.1	238.7	250.1	250.9	233.1	227.8	230.1	231.4	229.1	228.8
47.5°	1098.3	485.0	232.4	234.2	240.7	221.2	214.6	214.9	217.2	217.4	216.4
50°	1036.5	439.2	224.8	220.5	216.2	208.8	202.7	201.5	203.7	206.0	206.8
52.5°	956.6	395.3	212.1	205.5	195.4	195.4	192.6	188.5	191.6	194.6	195.6
55°	898.1	362.9	194.1	186.8	175.6	179.4	178.9	175.4	179.4	181.7	182.5
57.5°	778.2	291.7	170.8	168.5	159.1	163.7	164.7	160.2	158.1	158.6	159.4
60°	462.0	188.3	154.1	153.8	145.5	150.8	153.8	149.3	143.2	143.9	145.0
62.5°	207.3	143.9	133.0	132.0	131.8	138.6	141.9	137.6	129.0	129.7	130.8
65°	130.5	124.4	115.6	115.6	119.6	125.4	128.0	124.4	114.5	113.3	114.3
67.5°	121.1	115.8	106.7	104.9	106.9	111.8	112.0	105.2	99.3	98.3	98.3
70°	108.7	104.7	95.8	92.2	91.5	91.2	90.5	88.7	84.9	83.9	84.4
72.5°	90.0	87.2	81.6	77.8	75.8	75.5	72.5	71.0	67.7	67.2	66.9
75°	59.6	60.3	60.3	59.8	58.0	57.3	54.0	52.5	48.7	47.1	46.9
77.5°	35.2	36.0	37.0	37.3	37.0	37.0	34.0	32.2	28.4	26.4	25.8
80°	21.5	22.0	22.6	23.3	22.3	21.5	18.8	17.0	15.2	13.9	13.7
82.5°	13.9	14.4	14.7	15.2	14.7	13.7	11.4	10.4	9.1	8.1	7.9
85°	7.9	8.1	8.6	8.6	7.9	7.1	5.8	5.1	4.3	3.8	3.8
87.5°	2.8	2.8	2.8	3.0	2.5	2.3	1.5	1.0	0.8	0.8	0.8
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)