

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: P636563

Luminaire Tested: GWS-SA4B-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-722-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

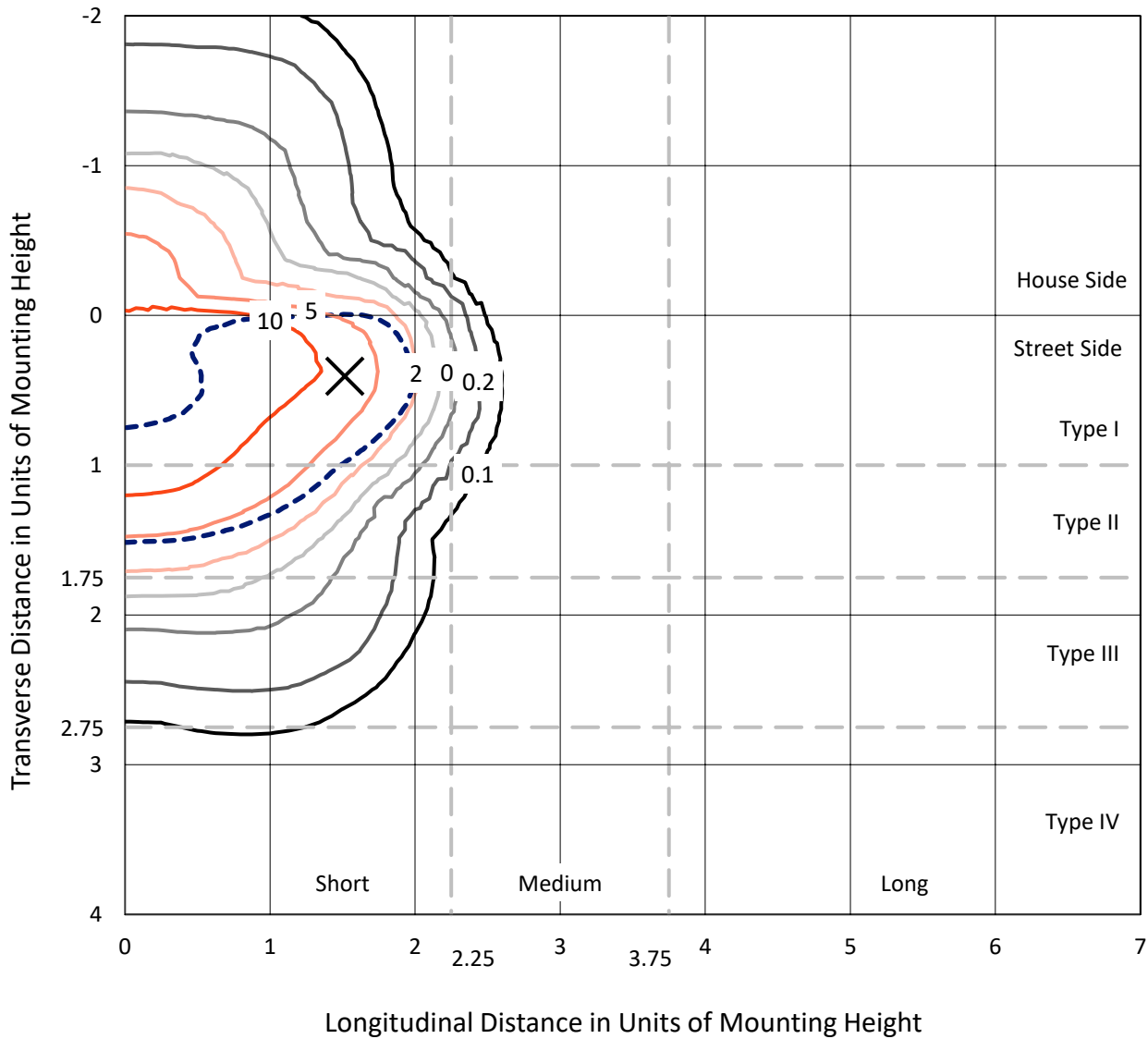
Lumens per Lamp: N/A  
Luminaire Lumens: 6333.1 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

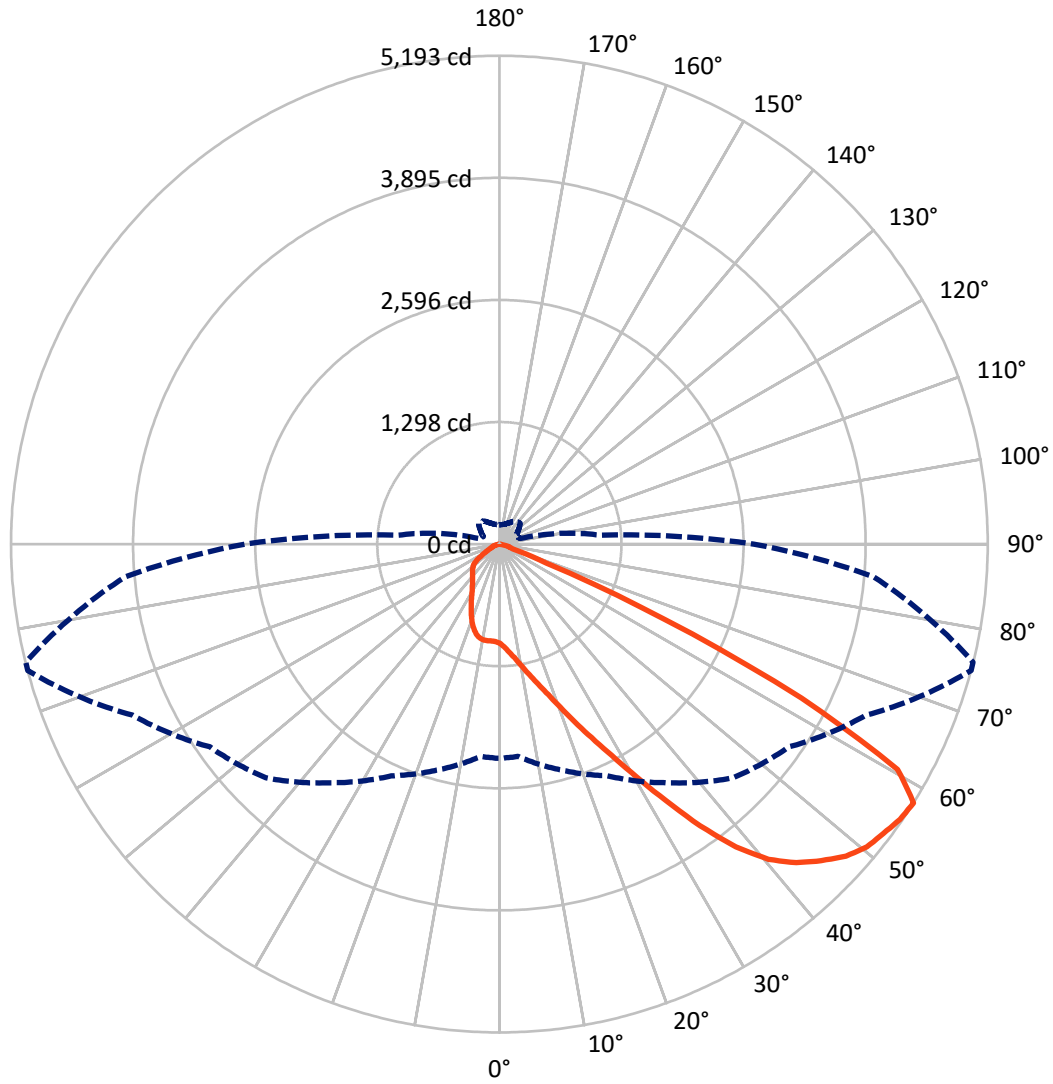
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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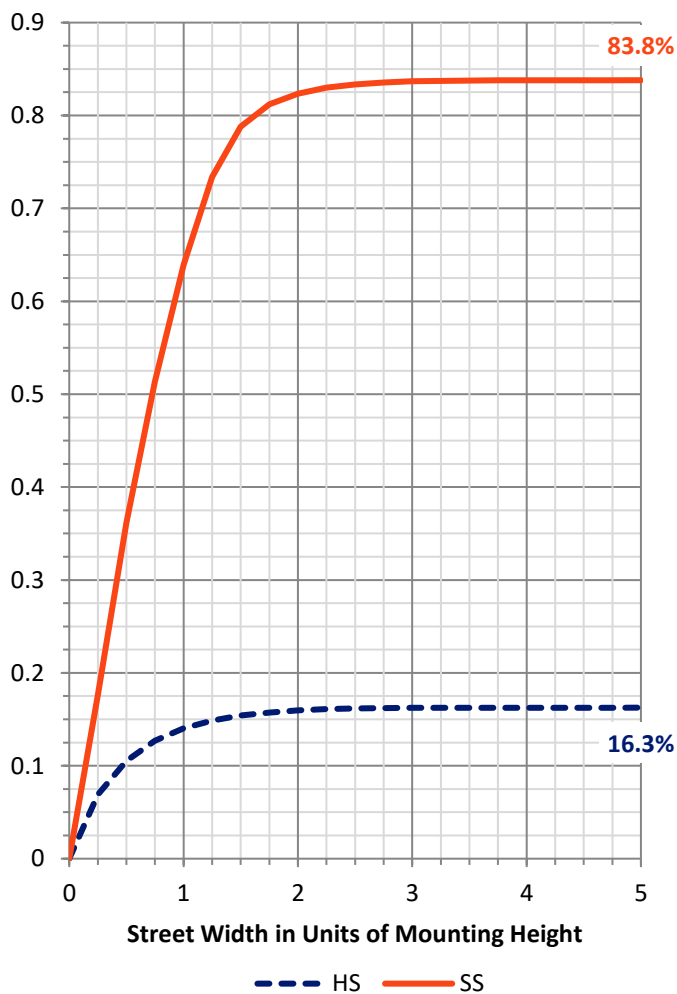
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1034.5	0.0	1034.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	5298.6	0.0	5298.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	6333.1	0.0	6333.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	1.7
10°-20°	349.2	5.5
20°-30°	639.4	10.1
30°-40°	1060.8	16.8
40°-50°	1620.1	25.6
50°-60°	1820.5	28.7
60°-70°	671.5	10.6
70°-80°	64.2	1.0
80°-90°	0.1	0.0
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°	6333.1	100.0
0°-180°	6333.1	100.0

**Coefficient of Utilization**



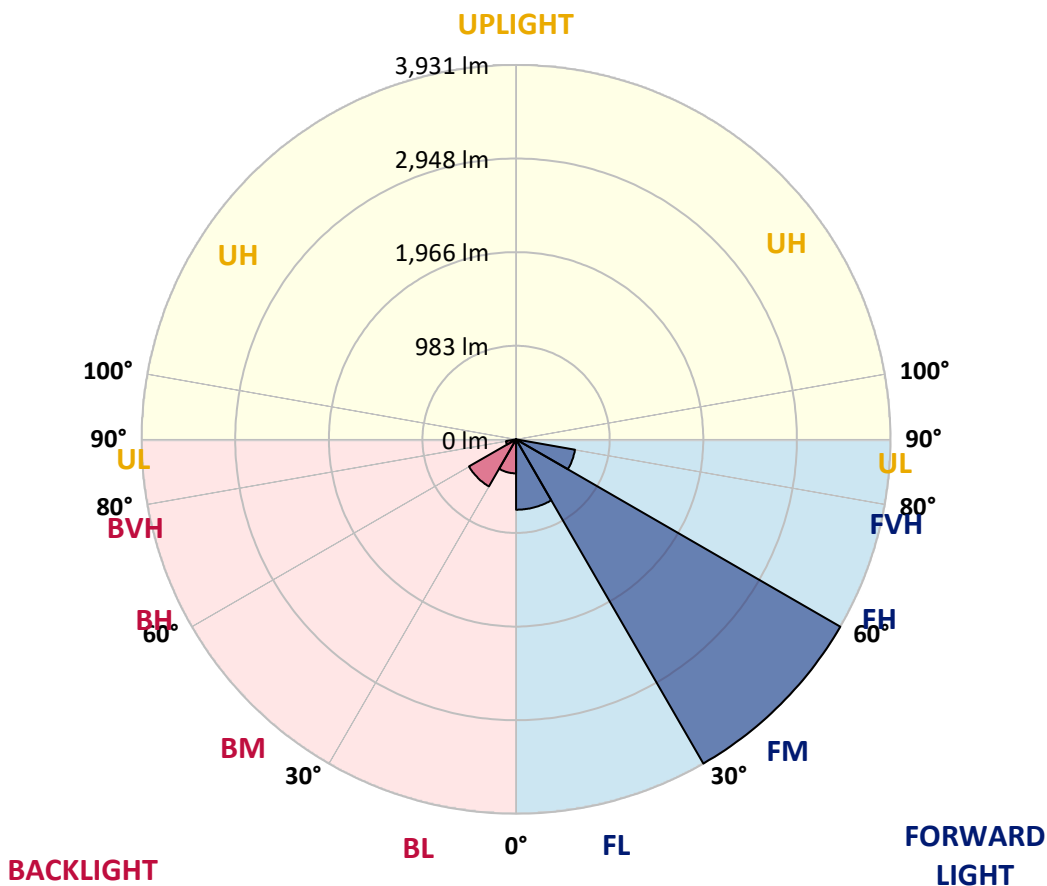
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.1	11.7			
FM (30°-60°)	3931.3	62.1			
FH (60°-80°)	628.2	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	357.0	5.6	B1/500		
BM (30°-60°)	570.1	9.0	B1/1000		
BH (60°-80°)	107.4	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			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°	55°	65°	75°	76°	85°
0°	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1180.1	1192.3	1188.5	1180.9	1176.3	1160.2	1150.3	1121.2	1100.6	1098.3	1079.2
5°	1329.1	1326.8	1323.8	1314.6	1307.0	1281.7	1251.9	1203.0	1159.5	1154.1	1113.6
7.5°	1410.9	1412.4	1414.0	1412.4	1407.1	1388.0	1355.1	1297.8	1231.3	1226.7	1162.5
10°	1444.5	1447.6	1455.2	1469.8	1482.8	1481.2	1462.1	1403.3	1321.5	1313.8	1227.5
12.5°	1460.6	1464.4	1476.6	1504.2	1539.3	1566.8	1569.9	1517.2	1427.0	1414.7	1304.7
15°	1482.8	1486.6	1501.9	1537.8	1589.0	1643.3	1678.4	1644.8	1543.9	1530.9	1389.5
17.5°	1492.7	1498.0	1520.2	1567.6	1634.1	1717.4	1796.9	1793.8	1682.2	1672.3	1488.1
20°	1511.8	1515.6	1535.5	1586.7	1667.0	1787.0	1920.7	1968.9	1851.2	1836.6	1607.3
22.5°	1572.2	1573.7	1582.9	1615.0	1689.9	1837.4	2046.8	2172.9	2050.6	2031.5	1741.1
25°	1670.8	1670.0	1673.8	1679.2	1734.2	1888.6	2168.3	2403.0	2279.2	2258.5	1892.4
27.5°	1796.1	1796.1	1805.3	1790.0	1812.2	1952.0	2288.3	2667.4	2545.1	2516.1	2058.3
30°	1943.6	1942.9	1964.3	1939.8	1946.7	2052.2	2417.5	2955.6	2866.2	2830.2	2249.4
32.5°	2143.9	2139.3	2163.8	2130.1	2107.2	2203.5	2575.0	3256.7	3250.6	3195.6	2489.3
35°	2396.9	2389.2	2396.9	2364.0	2322.7	2415.2	2781.3	3557.1	3677.1	3619.0	2775.2
37.5°	2648.3	2672.8	2681.2	2624.6	2591.0	2683.5	3029.7	3826.1	4084.5	4024.1	3072.5
40°	2944.9	2937.2	2966.3	2902.8	2881.4	2983.9	3272.8	4026.4	4407.0	4349.7	3337.0
42.5°	3163.5	3177.2	3213.1	3178.0	3161.2	3257.5	3476.8	4143.3	4630.9	4574.4	3525.8
45°	3425.6	3435.6	3449.3	3420.3	3402.7	3497.5	3624.3	4194.5	4801.4	4740.2	3652.6
47.5°	3709.2	3716.8	3716.8	3657.2	3600.7	3639.6	3722.9	4223.6	4958.1	4899.2	3746.6
50°	3912.5	3916.3	3949.9	3907.9	3784.9	3724.5	3768.0	4251.8	5062.0	5007.0	3777.2
52.5°	3732.1	3727.5	3838.4	3925.5	3958.3	3838.4	3846.0	4293.1	5112.5	5065.1	3801.7
55°	3142.8	3135.2	3291.1	3502.8	3792.5	3946.1	3940.0	4317.6	5168.2	5139.2	3890.3
57.5°	2278.4	2265.4	2482.5	2717.9	3097.7	3514.3	3758.9	4303.8	5192.7	5190.4	3993.5
60°	1369.6	1358.9	1563.8	1811.4	2104.9	2523.7	2929.6	3855.2	4865.6	4870.2	3725.2
62.5°	843.0	853.0	1037.9	1164.0	1273.3	1399.4	1634.1	2593.3	3604.5	3634.3	2617.8
65°	567.1	574.8	746.0	904.9	904.9	739.8	635.1	1239.7	1923.0	1872.6	1238.2
67.5°	380.6	389.0	524.3	710.0	736.8	515.9	257.6	369.9	535.8	519.7	306.5
70°	223.9	233.1	349.3	486.9	536.5	359.2	172.0	156.7	152.1	147.5	119.2
72.5°	100.1	103.9	178.1	247.6	226.2	151.3	121.5	125.3	118.5	116.2	97.1
75°	30.6	32.1	45.9	53.5	54.3	54.3	73.4	98.6	93.2	94.0	74.9
77.5°	7.6	7.6	12.2	11.5	6.1	5.4	13.8	22.2	22.9	20.6	15.3
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1070.8	1050.9	1037.9	1019.6	1006.6	992.8	980.6	970.7	965.3	963.8	964.6
5°	1095.3	1063.9	1033.3	998.2	973.7	950.8	932.5	917.9	911.1	908.8	908.8
7.5°	1132.7	1089.1	1034.9	979.8	938.6	902.6	881.2	865.2	859.1	857.6	853.0
10°	1181.6	1122.0	1032.6	947.0	888.9	851.4	836.2	831.6	833.9	834.6	833.9
12.5°	1240.5	1156.4	1018.1	898.8	836.2	813.2	814.8	827.0	840.7	847.6	849.1
15°	1303.1	1187.7	985.2	841.5	791.1	790.3	812.5	840.7	867.5	879.0	882.0
17.5°	1373.5	1213.0	934.7	780.4	752.1	774.2	814.0	857.6	893.5	912.6	916.4
20°	1450.7	1233.6	870.5	723.0	717.7	757.4	812.5	866.0	910.3	931.7	935.5
22.5°	1530.9	1248.1	796.4	670.3	686.3	738.3	797.9	849.9	891.9	916.4	919.5
25°	1622.6	1249.6	720.7	626.0	657.3	712.3	762.8	805.6	840.7	862.1	864.4
27.5°	1702.9	1231.3	653.5	590.0	630.6	680.2	713.9	737.6	762.0	774.2	775.0
30°	1795.4	1199.2	590.0	561.0	603.0	640.5	657.3	662.7	664.9	667.2	664.2
32.5°	1905.4	1160.2	542.7	532.7	571.7	596.9	601.5	590.8	577.8	559.5	554.9
35°	2040.7	1125.1	503.7	505.2	537.3	552.6	548.8	525.8	500.6	478.5	474.6
37.5°	2187.4	1095.3	473.9	478.5	499.9	510.6	499.1	473.9	462.4	443.3	444.1
40°	2317.4	1070.8	447.1	451.7	461.6	471.6	453.2	436.4	457.8	456.3	457.8
42.5°	2409.9	1050.2	424.2	421.9	428.8	435.7	421.9	413.5	449.4	439.5	444.8
45°	2464.1	1031.1	405.1	391.3	402.0	414.3	405.1	394.4	406.6	360.8	356.9
47.5°	2500.8	1020.4	388.3	361.5	380.6	402.0	382.9	356.9	339.4	299.6	296.6
50°	2504.6	1015.0	368.4	330.9	355.4	378.3	356.2	320.2	295.0	277.4	275.2
52.5°	2524.5	1025.7	340.9	292.0	318.7	355.4	340.1	304.2	269.8	254.5	251.5
55°	2613.2	1070.8	295.0	238.5	277.4	337.8	327.1	271.3	238.5	229.3	227.0
57.5°	2704.9	1080.0	232.3	188.8	241.5	312.6	298.8	249.9	217.8	207.1	204.8
60°	2473.3	889.7	174.3	155.9	213.2	288.9	276.7	236.9	199.5	186.5	184.2
62.5°	1624.9	480.7	138.3	132.2	179.6	244.6	252.2	214.0	178.1	164.3	163.6
65°	749.0	223.2	106.2	104.7	140.6	194.9	217.1	187.3	150.6	138.3	138.3
67.5°	204.1	110.8	83.3	77.2	95.5	130.7	158.2	139.9	107.0	92.5	91.7
70°	101.7	89.4	74.9	66.5	68.8	81.0	93.2	78.0	54.3	44.3	43.6
72.5°	83.3	73.4	63.4	56.6	52.0	49.7	48.2	39.0	25.2	19.1	18.3
75°	61.9	52.7	45.1	36.7	31.3	29.0	26.0	19.1	10.7	6.1	5.4
77.5°	13.8	13.0	12.2	9.2	8.4	6.9	5.4	3.8	1.5	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)