

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: P636787

Luminaire Tested: GWS-SA4B-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9702.8 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

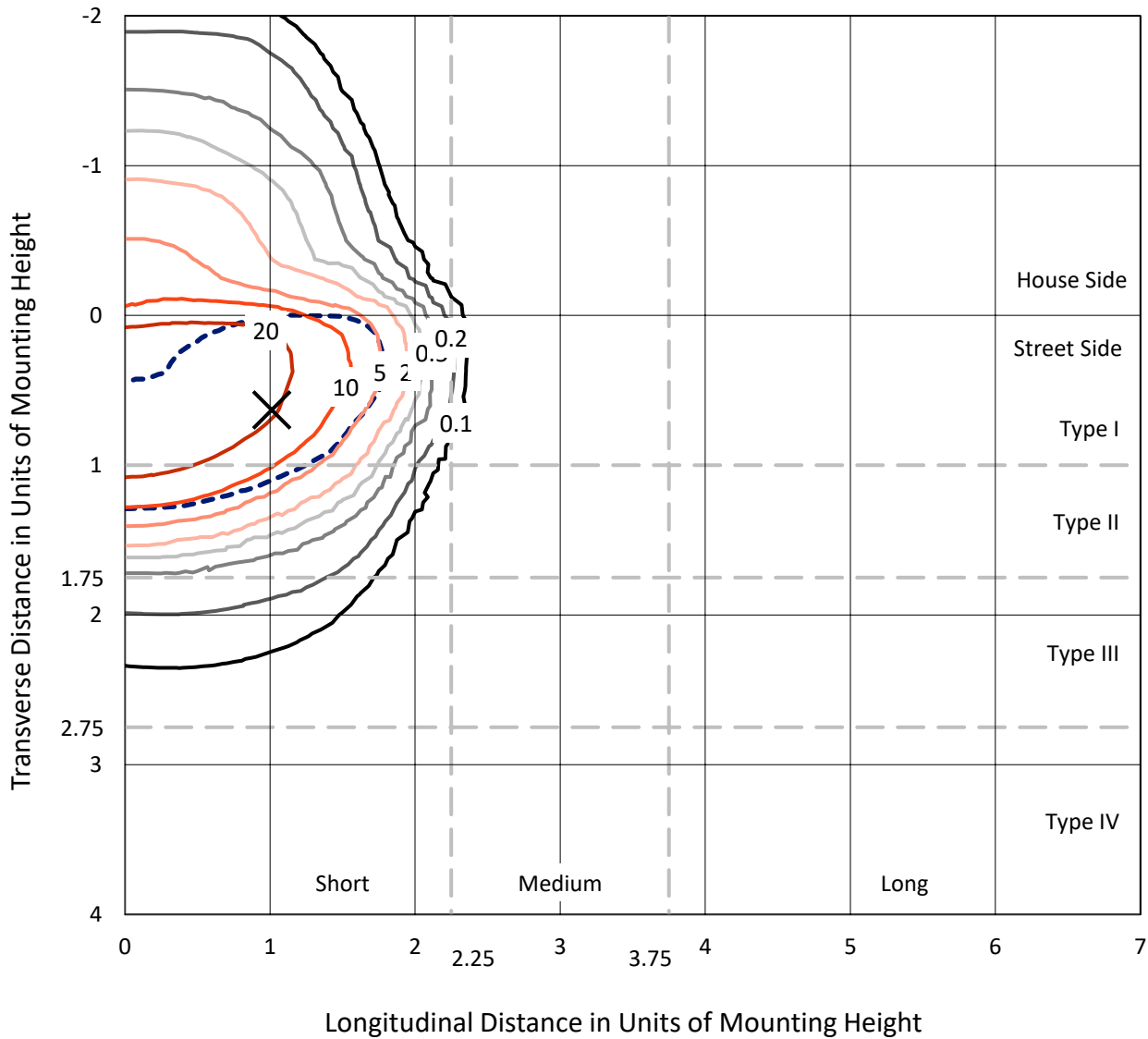
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

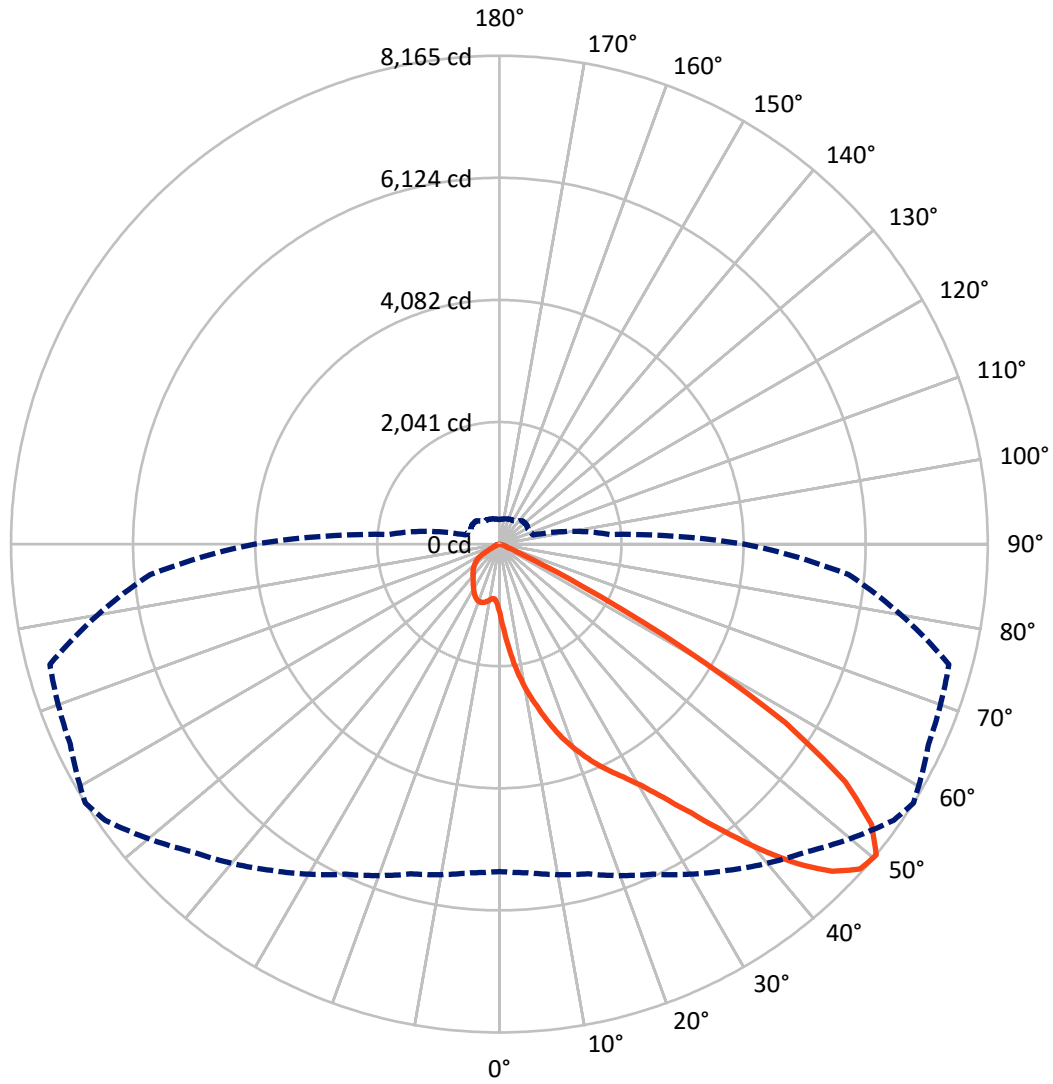
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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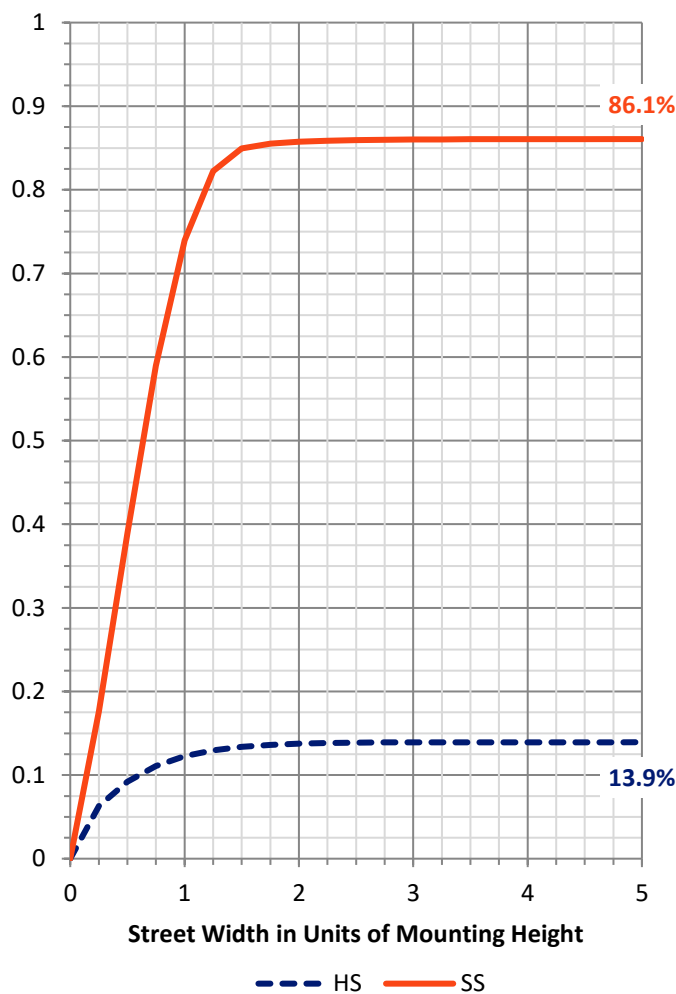
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1359.0	0.0	1359.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8343.8	0.0	8343.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	9702.8	0.0	9702.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.5
10°-20°	568.4	5.9
20°-30°	1150.2	11.9
30°-40°	2034.8	21.0
40°-50°	2966.3	30.6
50°-60°	2377.5	24.5
60°-70°	428.3	4.4
70°-80°	33.8	0.3
80°-90°	0.0	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°	9702.8	100.0
0°-180°	9702.8	100.0

Coefficient of Utilization



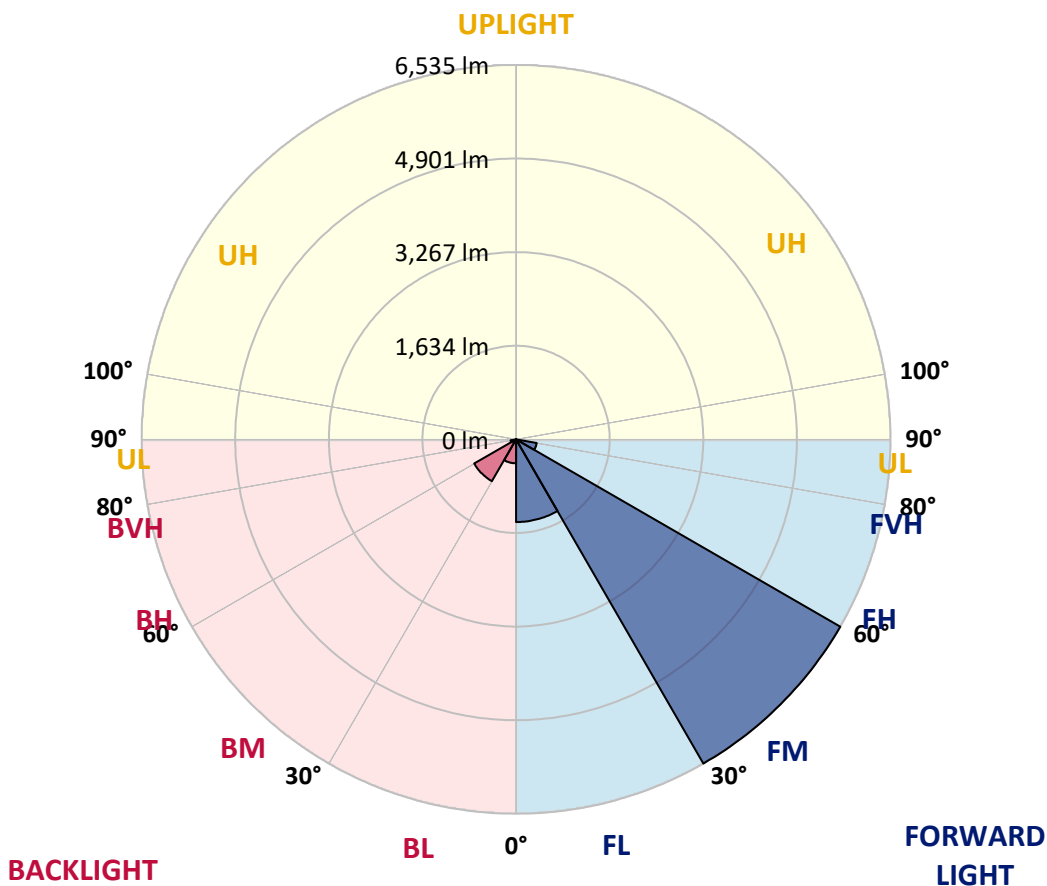
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.7	14.9			
FM (30°-60°)	6534.5	67.3			
FH (60°-80°)	365.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	418.4	4.3	B1/500		
BM (30°-60°)	844.0	8.7	B1/1000		
BH (60°-80°)	96.6	1.0	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°	58°	65°	75°	85°
0°	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0
2.5°	1715.1	1688.2	1672.6	1660.1	1605.1	1518.0	1460.9	1430.8	1381.0	1297.0	1224.4
5°	2238.1	2218.4	2182.0	2157.1	2086.6	1963.1	1835.5	1784.6	1671.5	1481.7	1311.5
7.5°	2584.6	2570.1	2556.6	2523.4	2457.0	2344.9	2203.8	2150.9	1976.6	1706.8	1427.7
10°	2851.3	2839.9	2824.3	2823.3	2771.4	2670.7	2532.7	2477.8	2288.9	1951.7	1564.7
12.5°	3085.8	3076.4	3073.3	3102.4	3069.2	2994.5	2845.1	2776.6	2576.3	2201.8	1716.2
15°	3246.6	3244.5	3258.0	3315.1	3333.8	3299.5	3174.0	3100.3	2870.0	2452.9	1883.2
17.5°	3320.3	3326.5	3352.4	3451.0	3534.0	3563.1	3466.6	3404.3	3161.5	2707.1	2061.7
20°	3445.8	3443.7	3459.3	3552.7	3654.4	3758.1	3729.1	3676.2	3456.2	2975.8	2259.9
22.5°	3799.6	3769.5	3736.3	3750.9	3787.2	3908.6	3962.5	3935.6	3760.2	3251.8	2464.3
25°	4343.3	4312.2	4205.3	4101.6	4033.1	4088.1	4161.8	4175.2	4062.1	3535.1	2678.0
27.5°	4920.2	4892.2	4771.9	4616.2	4420.1	4324.7	4379.6	4406.6	4358.9	3872.3	2905.2
30°	5460.8	5423.5	5291.7	5098.7	4871.5	4725.2	4662.9	4681.6	4709.6	4271.7	3171.9
32.5°	5929.8	5901.8	5744.1	5540.7	5321.8	5169.3	5024.0	5055.1	5123.6	4760.4	3513.3
35°	6327.2	6312.7	6145.6	5943.3	5711.9	5634.1	5509.6	5515.8	5584.3	5350.8	3929.3
37.5°	6672.7	6647.8	6496.3	6308.5	6124.9	6112.4	6078.2	6081.3	6116.6	6038.7	4407.7
40°	6890.6	6867.8	6759.9	6643.7	6512.9	6515.0	6692.4	6705.9	6665.4	6714.2	4913.0
42.5°	6972.6	6956.0	6897.9	6898.9	6885.4	6946.6	7279.7	7304.6	7159.3	7244.4	5344.6
45°	6830.4	6823.2	6827.3	6976.7	7138.6	7327.4	7760.1	7803.7	7598.2	7596.2	5681.8
47.5°	6371.8	6357.3	6478.7	6732.9	7107.5	7474.8	8050.6	8118.1	7905.4	7797.5	5893.5
50°	5473.3	5514.8	5706.7	6088.6	6658.2	7272.4	8047.5	8164.8	7916.8	7779.8	5858.2
52.5°	3964.6	3956.3	4376.5	4901.6	5594.7	6625.0	7620.0	7791.2	7639.7	7606.5	5779.4
55°	2157.1	2232.9	2516.1	3211.3	4076.7	5399.6	6643.7	7017.2	7192.5	7543.2	5921.5
57.5°	792.7	825.9	1003.3	1495.2	2158.2	3357.6	5074.8	5638.2	6179.9	7366.9	5897.6
60°	319.6	325.8	396.4	549.9	906.8	1708.9	3044.3	3544.4	4054.9	5639.3	4525.9
62.5°	232.4	240.7	268.7	321.7	458.6	747.1	1312.5	1526.3	1668.4	2793.2	2229.8
65°	187.8	194.0	216.9	240.7	303.0	401.5	423.3	407.8	405.7	722.2	511.5
67.5°	155.6	161.9	178.5	195.1	217.9	200.3	145.3	152.5	124.5	123.5	100.6
70°	114.1	121.4	138.0	155.6	130.7	54.0	84.0	124.5	94.4	78.9	76.8
72.5°	86.1	91.3	106.9	101.7	38.4	20.8	56.0	90.3	72.6	58.1	57.1
75°	64.3	67.4	54.0	16.6	4.2	5.2	20.8	37.4	40.5	33.2	33.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	4.2	5.2	6.2
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0	1159.0
2.5°	1182.8	1139.3	1077.0	1025.1	985.7	947.3	918.3	889.2	888.2	873.6	870.5
5°	1232.7	1153.8	1039.7	957.7	907.9	877.8	857.0	846.7	841.5	836.3	834.2
7.5°	1304.2	1191.1	1033.4	946.3	904.8	885.1	870.5	864.3	861.2	857.0	856.0
10°	1392.4	1245.1	1056.3	968.1	931.8	913.1	897.5	888.2	883.0	875.7	873.6
12.5°	1498.3	1311.5	1092.6	1004.4	966.0	941.1	920.3	906.8	899.6	890.2	888.2
15°	1612.4	1383.1	1133.0	1037.6	991.9	959.8	933.8	913.1	899.6	888.2	885.1
17.5°	1730.7	1455.7	1169.4	1060.4	1004.4	966.0	928.6	900.6	884.0	869.5	865.3
20°	1863.5	1530.4	1193.2	1064.6	1000.2	949.4	905.8	870.5	853.9	834.2	830.1
22.5°	2002.5	1600.0	1203.6	1055.2	977.4	918.3	871.6	835.3	811.4	790.6	784.4
25°	2137.4	1662.2	1198.4	1029.3	943.2	874.7	827.0	789.6	763.7	742.9	737.7
27.5°	2280.6	1714.1	1179.7	990.9	896.5	827.0	781.3	749.1	725.3	702.4	697.3
30°	2441.4	1761.8	1149.6	944.2	841.5	778.2	742.9	721.1	695.2	671.3	664.1
32.5°	2635.5	1804.4	1106.1	888.2	792.7	735.6	715.9	699.3	669.2	644.3	639.2
35°	2857.5	1839.6	1051.1	830.1	745.0	708.7	704.5	682.7	643.3	614.3	608.0
37.5°	3114.8	1873.9	985.7	773.0	709.7	696.2	697.3	659.9	612.2	576.9	572.7
40°	3391.9	1908.1	913.1	723.2	677.5	689.0	679.6	626.7	548.9	514.6	510.5
42.5°	3680.3	1945.5	839.4	676.5	650.6	660.9	647.5	560.3	504.3	486.6	484.6
45°	3940.7	1990.1	759.5	629.8	623.6	620.5	597.6	507.4	483.5	471.1	470.0
47.5°	4128.6	1982.8	674.4	585.2	594.5	584.2	514.6	482.5	462.8	446.2	442.0
50°	4094.3	1856.2	586.2	535.4	557.2	547.8	462.8	453.4	435.8	418.1	411.9
52.5°	4007.2	1684.0	509.5	482.5	516.7	494.9	427.5	418.1	402.6	379.8	372.5
55°	4053.8	1522.1	449.3	439.9	475.2	409.8	388.1	373.5	356.9	332.0	328.9
57.5°	3903.4	1242.0	361.1	367.3	420.2	349.7	340.3	317.5	289.5	272.9	270.8
60°	2701.9	667.2	226.2	233.5	304.0	293.6	305.1	284.3	250.1	234.5	231.4
62.5°	1241.0	267.7	123.5	118.3	159.8	199.2	261.5	259.4	216.9	192.0	189.9
65°	300.9	122.4	88.2	83.0	90.3	119.3	170.2	204.4	175.4	146.3	143.2
67.5°	97.5	99.6	80.9	75.7	79.9	89.2	101.7	113.1	112.1	102.7	100.6
70°	77.8	90.3	74.7	68.5	68.5	71.6	68.5	55.0	47.7	51.9	54.0
72.5°	58.1	68.5	59.1	52.9	50.8	49.8	42.5	31.1	21.8	19.7	18.7
75°	34.2	38.4	36.3	31.1	29.1	25.9	20.8	13.5	7.3	5.2	3.1
77.5°	6.2	7.3	8.3	6.2	5.2	4.2	3.1	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.0	1.0	0.0	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)