

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: P638382

Luminaire Tested: GWS-SA4E-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638382
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-SA4E-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20696.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

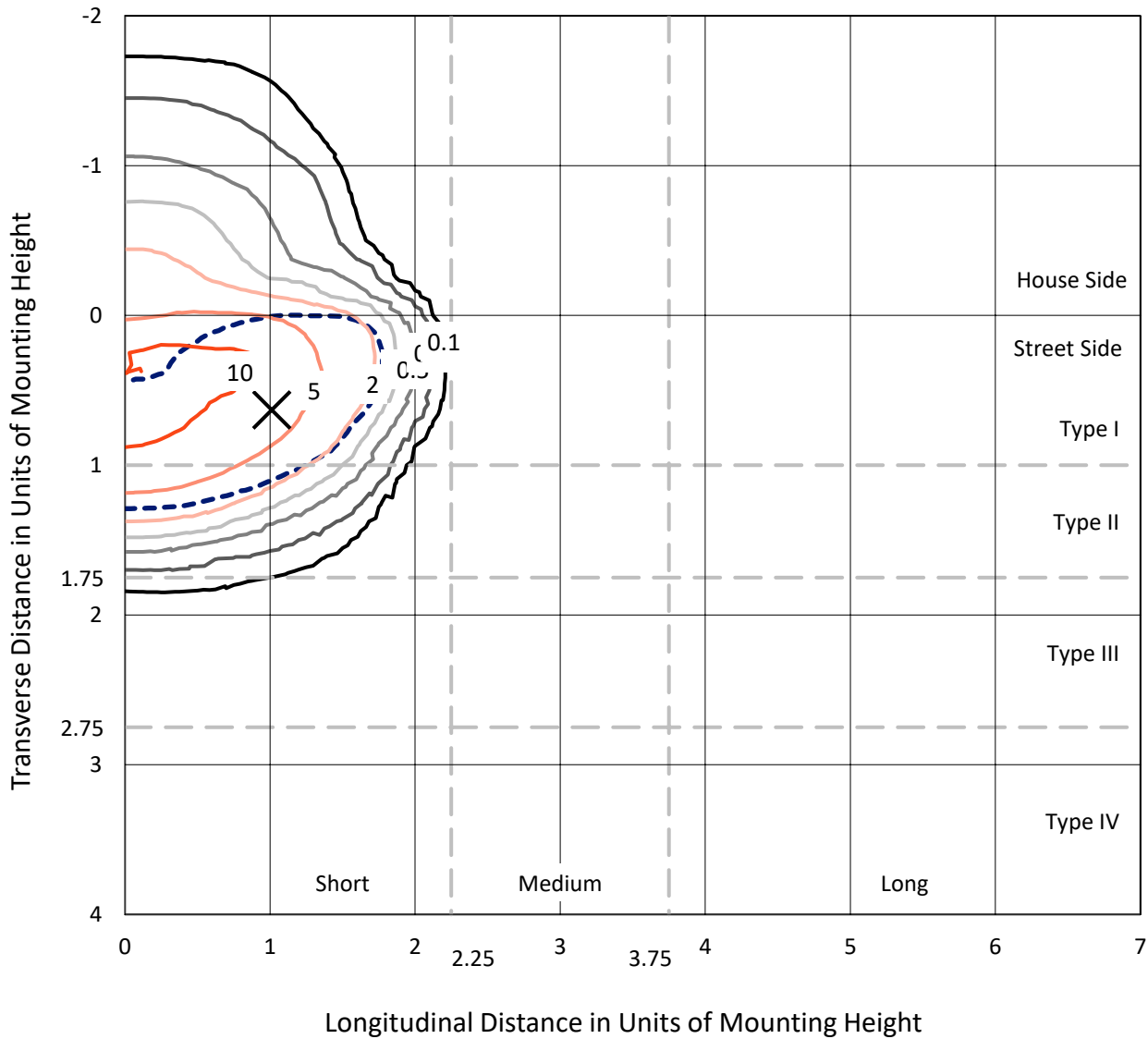
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

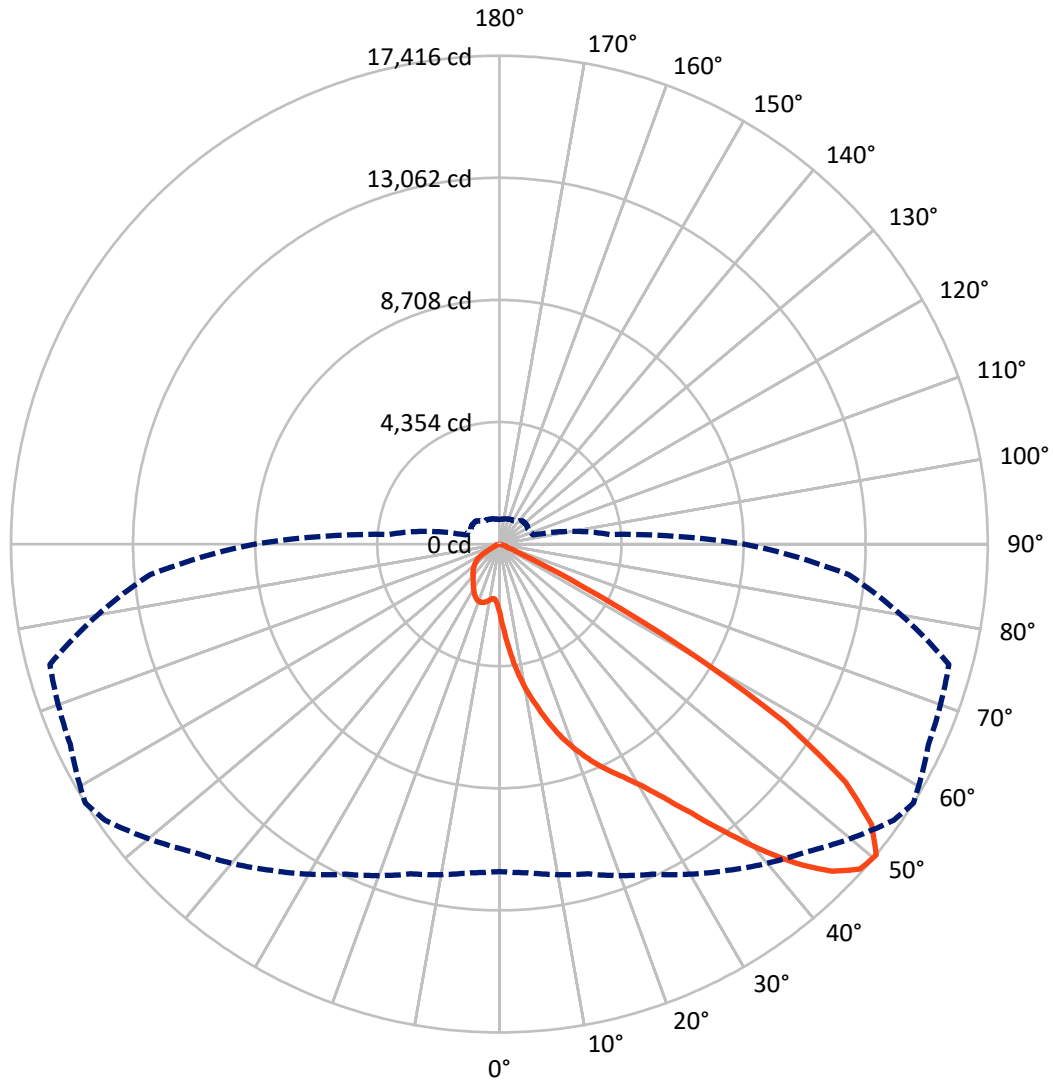
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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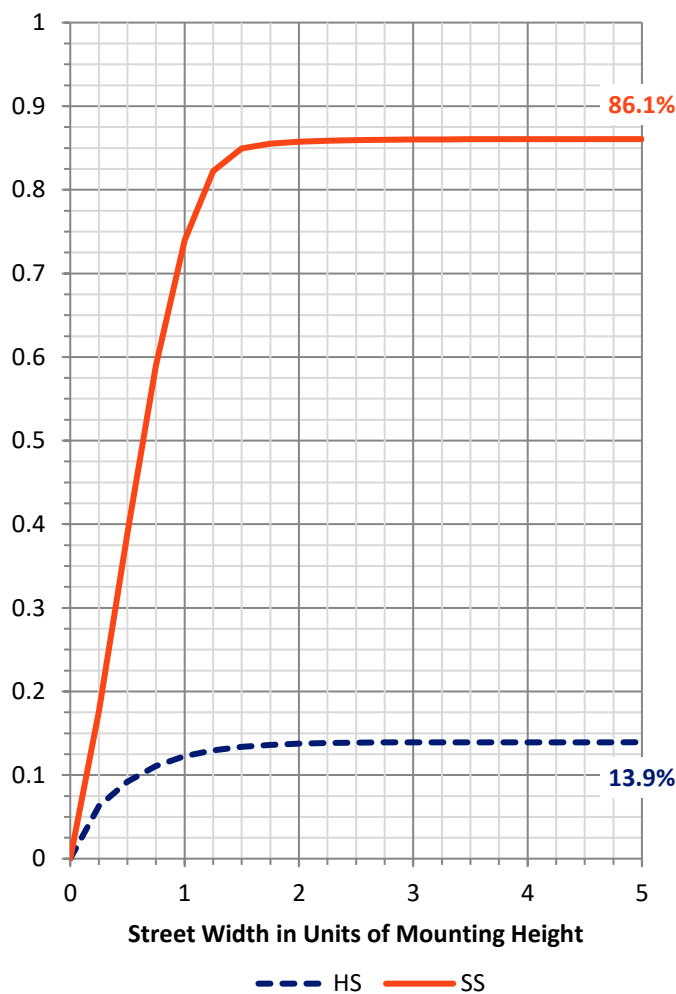
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2898.9	0.0	2898.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17798.0	0.0	17798.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	20696.9	0.0	20696.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	1.5
10°-20°	1212.4	5.9
20°-30°	2453.4	11.9
30°-40°	4340.3	21.0
40°-50°	6327.3	30.6
50°-60°	5071.5	24.5
60°-70°	913.7	4.4
70°-80°	72.0	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°	20696.9	100.0
0°-180°	20696.9	100.0

Coefficient of Utilization



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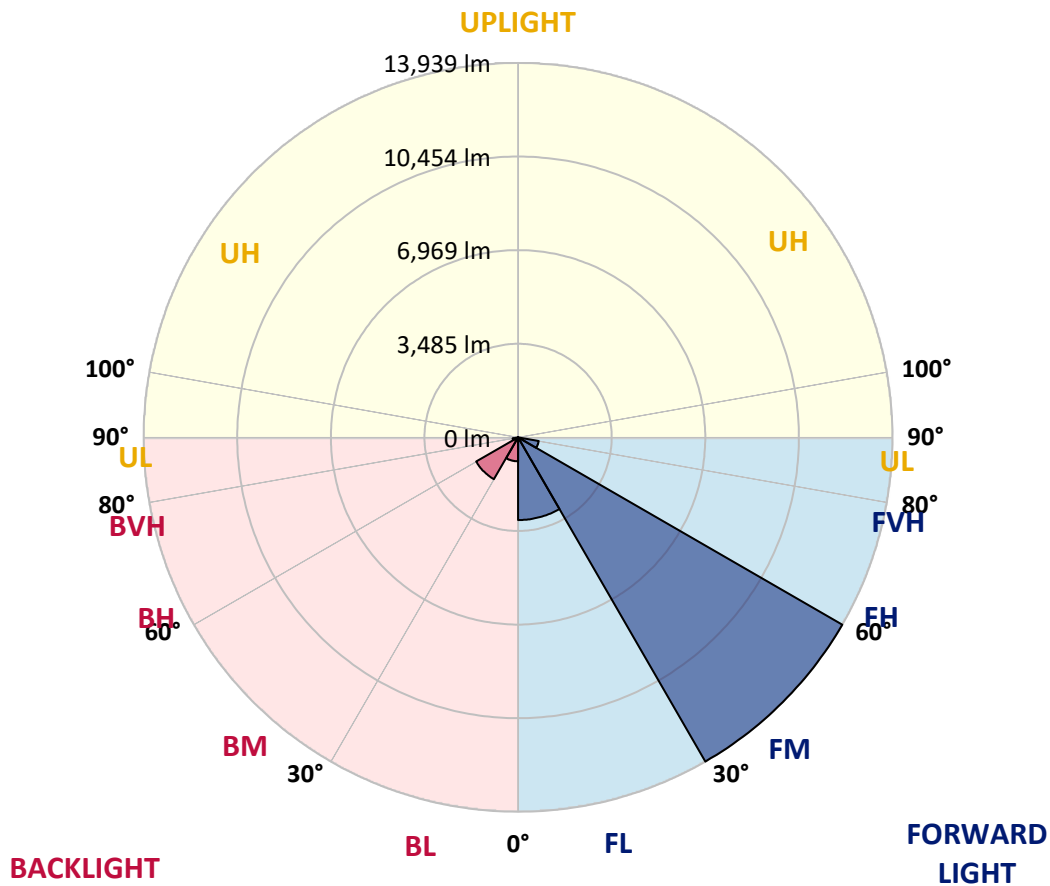
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3079.6	14.9			
FM (30°-60°)	13938.7	67.3			
FH (60°-80°)	779.6	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	892.5	4.3	B2/1000		
BM (30°-60°)	1800.3	8.7	B2/2500		
BH (60°-80°)	206.0	1.0	B1/500		G1/500
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: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2
2.5°	3658.5	3601.0	3567.8	3541.2	3423.9	3238.0	3116.3	3052.1	2945.8	2766.6	2611.6
5°	4774.0	4731.9	4654.5	4601.4	4450.9	4187.5	3915.3	3806.8	3565.6	3160.5	2797.6
7.5°	5513.2	5482.2	5453.5	5382.6	5241.0	5002.0	4701.0	4588.1	4216.3	3640.8	3045.4
10°	6082.0	6057.7	6024.5	6022.3	5911.6	5696.9	5402.6	5285.3	4882.4	4163.1	3337.6
12.5°	6582.2	6562.3	6555.7	6617.6	6546.8	6387.5	6068.8	5922.7	5495.5	4696.5	3660.7
15°	6925.3	6920.9	6949.6	7071.4	7111.2	7038.2	6770.4	6613.2	6121.9	5232.1	4017.1
17.5°	7082.4	7095.7	7151.0	7361.3	7538.4	7600.3	7394.5	7261.7	6743.8	5774.4	4397.7
20°	7350.2	7345.8	7379.0	7578.2	7795.1	8016.4	7954.4	7841.6	7372.4	6347.6	4820.5
22.5°	8105.0	8040.8	7969.9	8000.9	8078.4	8337.3	8452.4	8394.9	8020.8	6936.4	5256.5
25°	9264.7	9198.3	8970.3	8749.0	8602.9	8720.2	8877.4	8906.2	8664.9	7540.6	5712.4
27.5°	10495.3	10435.5	10178.8	9846.8	9428.5	9224.9	9342.2	9399.7	9297.9	8259.9	6197.1
30°	11648.4	11568.7	11287.6	10875.9	10391.2	10079.2	9946.4	9986.2	10046.0	9112.0	6765.9
32.5°	12648.8	12589.0	12252.6	11818.8	11351.8	11026.5	10716.6	10783.0	10929.1	10154.4	7494.1
35°	13496.4	13465.5	13109.1	12677.5	12184.0	12018.0	11752.4	11765.7	11911.8	11413.8	8381.6
37.5°	14233.5	14180.3	13857.2	13456.6	13064.9	13038.3	12965.3	12971.9	13047.2	12881.2	9401.9
40°	14698.2	14649.6	14419.4	14171.5	13892.6	13897.0	14275.5	14304.3	14218.0	14322.0	10479.8
42.5°	14873.1	14837.7	14713.7	14716.0	14687.2	14817.8	15528.2	15581.3	15271.5	15453.0	11400.5
45°	14569.9	14554.4	14563.2	14881.9	15227.2	15630.0	16553.0	16645.9	16207.7	16203.3	12119.8
47.5°	13591.6	13560.6	13819.6	14361.8	15160.8	15944.3	17172.7	17316.5	16862.8	16632.6	12571.3
50°	11674.9	11763.5	12172.9	12987.4	14202.5	15512.7	17166.0	17416.1	16887.2	16595.0	12496.1
52.5°	8456.9	8439.2	9335.5	10455.4	11933.9	14131.7	16254.2	16619.4	16296.2	16225.4	12327.8
55°	4601.4	4762.9	5367.2	6850.0	8695.9	11517.8	14171.5	14968.3	15342.3	16090.4	12631.1
57.5°	1690.9	1761.8	2140.2	3189.3	4603.6	7162.1	10825.0	12026.8	13182.2	15714.1	12580.2
60°	681.7	695.0	845.5	1173.0	1934.4	3645.2	6493.7	7560.5	8649.4	12029.1	9654.2
62.5°	495.8	513.5	573.2	686.1	978.3	1593.5	2799.8	3255.7	3558.9	5958.1	4756.3
65°	400.6	413.9	462.6	513.5	646.3	856.5	903.0	869.8	865.4	1540.4	1091.1
67.5°	332.0	345.3	380.7	416.1	464.8	427.2	309.9	325.3	265.6	263.4	214.7
70°	243.5	259.0	294.4	332.0	278.9	115.1	179.3	265.6	201.4	168.2	163.8
72.5°	183.7	194.8	228.0	216.9	81.9	44.3	119.5	192.6	154.9	123.9	121.7
75°	137.2	143.9	115.1	35.4	8.9	11.1	44.3	79.7	86.3	70.8	70.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.6	8.9	11.1	13.3
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°	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2	2472.2
2.5°	2523.1	2430.2	2297.4	2186.7	2102.6	2020.7	1958.7	1896.8	1894.5	1863.6	1856.9
5°	2629.4	2461.1	2217.7	2042.8	1936.6	1872.4	1828.2	1806.0	1795.0	1783.9	1779.5
7.5°	2782.1	2540.8	2204.4	2018.5	1930.0	1887.9	1856.9	1843.6	1837.0	1828.2	1825.9
10°	2970.2	2655.9	2253.1	2065.0	1987.5	1947.7	1914.5	1894.5	1883.5	1868.0	1863.6
12.5°	3195.9	2797.6	2330.6	2142.4	2060.5	2007.4	1963.2	1934.4	1918.9	1899.0	1894.5
15°	3439.4	2950.3	2416.9	2213.3	2115.9	2047.3	1991.9	1947.7	1918.9	1894.5	1887.9
17.5°	3691.7	3105.2	2494.3	2261.9	2142.4	2060.5	1980.9	1921.1	1885.7	1854.7	1845.9
20°	3975.0	3264.6	2545.2	2270.8	2133.6	2025.1	1932.2	1856.9	1821.5	1779.5	1770.6
22.5°	4271.6	3412.8	2567.4	2250.9	2084.9	1958.7	1859.1	1781.7	1730.8	1686.5	1673.2
25°	4559.3	3545.6	2556.3	2195.6	2011.9	1865.8	1764.0	1684.3	1629.0	1584.7	1573.6
27.5°	4864.7	3656.3	2516.5	2113.7	1912.3	1764.0	1666.6	1598.0	1547.1	1498.4	1487.3
30°	5207.8	3758.1	2452.3	2014.1	1795.0	1659.9	1584.7	1538.2	1482.9	1432.0	1416.5
32.5°	5621.7	3848.9	2359.3	1894.5	1690.9	1569.2	1527.1	1491.7	1427.6	1374.4	1363.4
35°	6095.3	3924.1	2242.0	1770.6	1589.1	1511.7	1502.8	1456.3	1372.2	1310.2	1297.0
37.5°	6644.2	3997.1	2102.6	1648.9	1513.9	1485.1	1487.3	1407.6	1305.8	1230.6	1221.7
40°	7235.1	4070.2	1947.7	1542.6	1445.3	1469.6	1449.7	1336.8	1170.8	1097.8	1088.9
42.5°	7850.4	4149.9	1790.5	1443.0	1387.7	1409.8	1381.1	1195.2	1075.6	1038.0	1033.6
45°	8406.0	4245.0	1620.1	1343.4	1330.2	1323.5	1274.8	1082.3	1031.4	1004.8	1002.6
47.5°	8806.6	4229.5	1438.6	1248.3	1268.2	1246.1	1097.8	1029.2	987.1	951.7	942.8
50°	8733.5	3959.5	1250.5	1142.0	1188.5	1168.6	987.1	967.2	929.6	891.9	878.7
52.5°	8547.6	3592.1	1086.7	1029.2	1102.2	1055.7	911.9	891.9	858.7	810.1	794.6
55°	8647.2	3246.8	958.3	938.4	1013.7	874.2	827.8	796.8	761.4	708.2	701.6
57.5°	8326.3	2649.3	770.2	783.5	896.4	745.9	725.9	677.3	617.5	582.1	577.7
60°	5763.3	1423.1	482.5	498.0	648.5	626.4	650.7	606.4	533.4	500.2	493.6
62.5°	2647.1	571.0	263.4	252.3	340.8	424.9	557.7	553.3	462.6	409.5	405.0
65°	641.8	261.2	188.1	177.1	192.6	254.5	363.0	436.0	374.0	312.1	305.4
67.5°	208.0	212.5	172.6	161.6	170.4	190.3	216.9	241.2	239.0	219.1	214.7
70°	166.0	192.6	159.4	146.1	146.1	152.7	146.1	117.3	101.8	110.7	115.1
72.5°	123.9	146.1	126.2	112.9	108.4	106.2	90.7	66.4	46.5	42.1	39.8
75°	73.0	81.9	77.5	66.4	62.0	55.3	44.3	28.8	15.5	11.1	6.6
77.5°	13.3	15.5	17.7	13.3	11.1	8.9	6.6	2.2	0.0	0.0	0.0
80°	0.0	2.2	2.2	2.2	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)