

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: P630801

Luminaire Tested: GWS-SA1E-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 6552.5 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

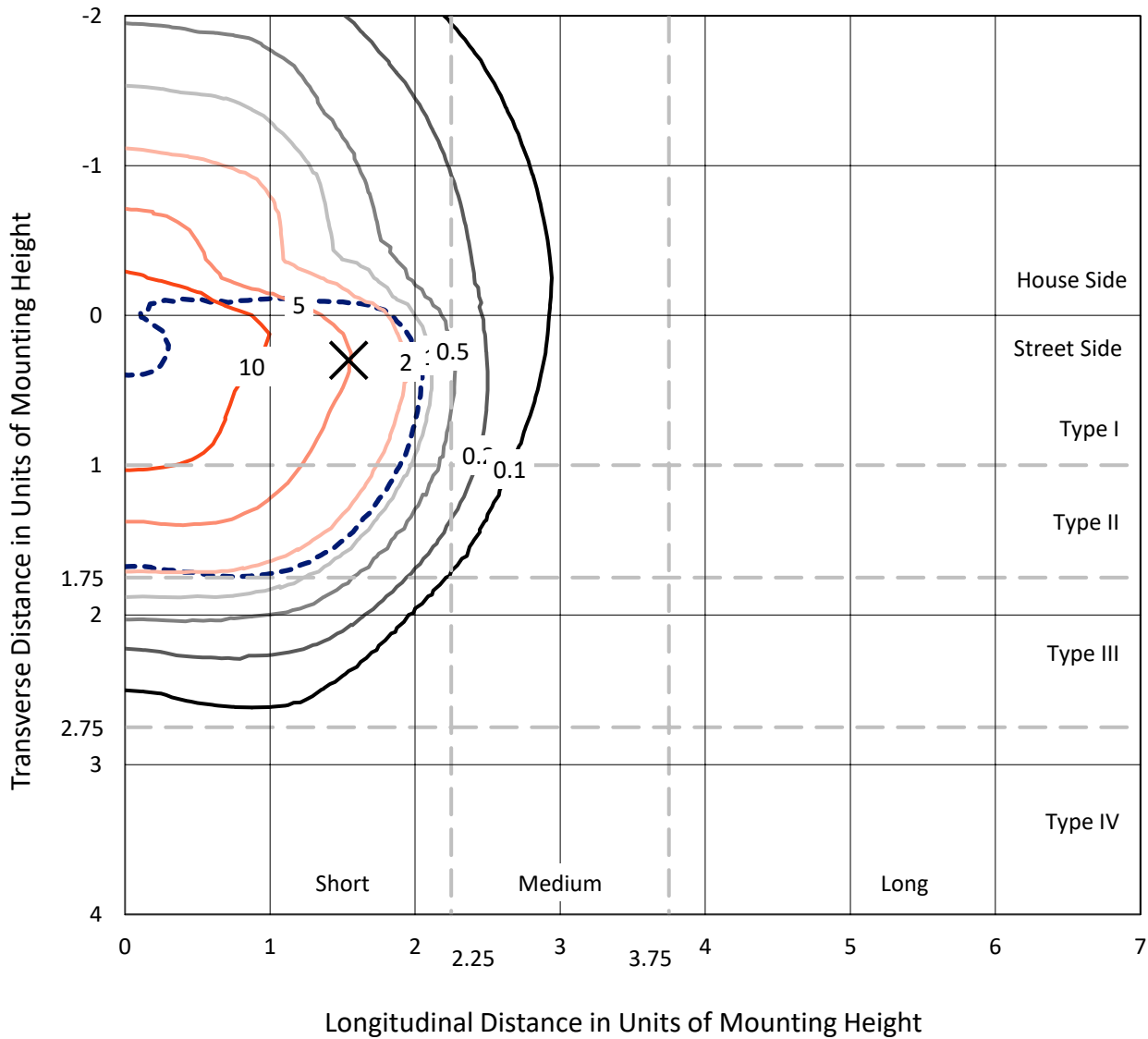
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

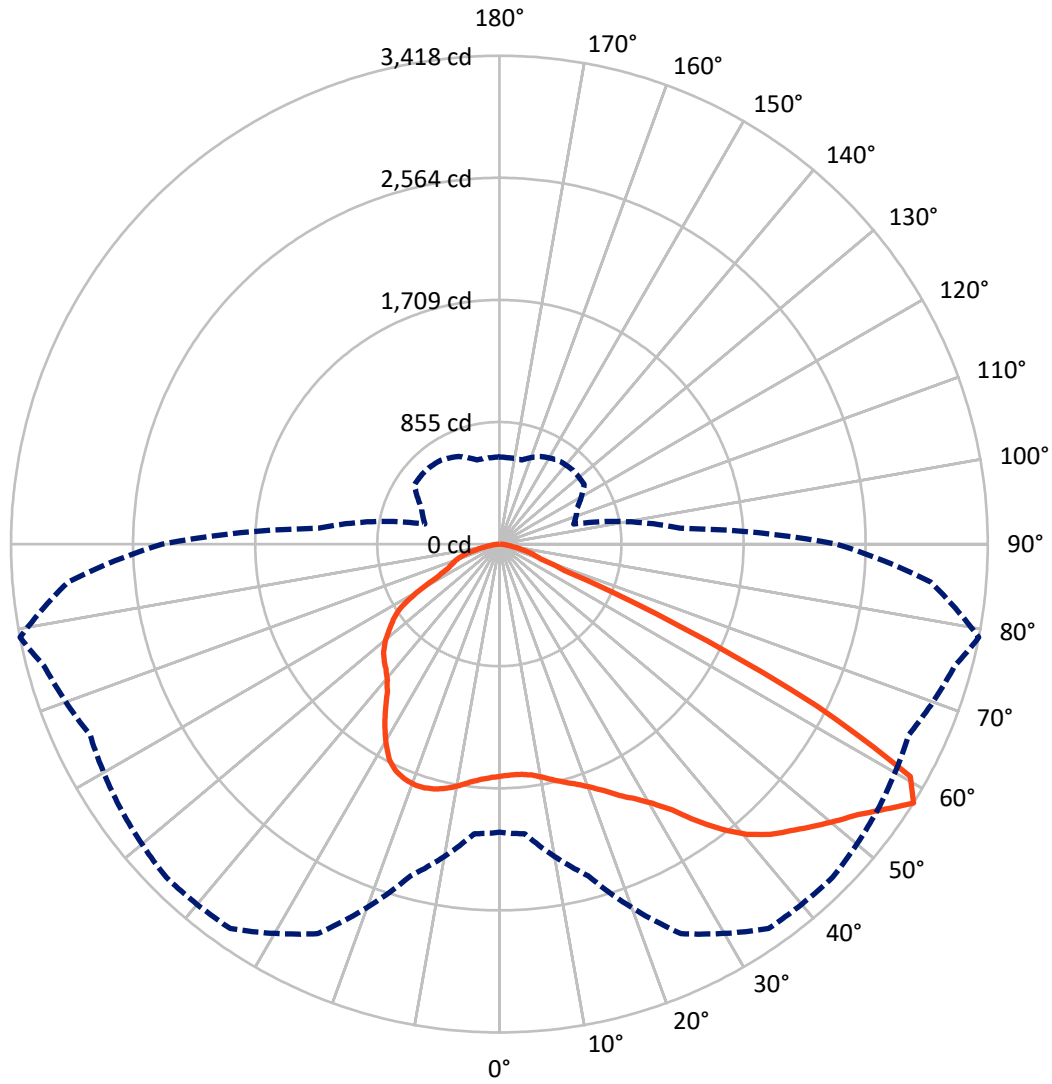
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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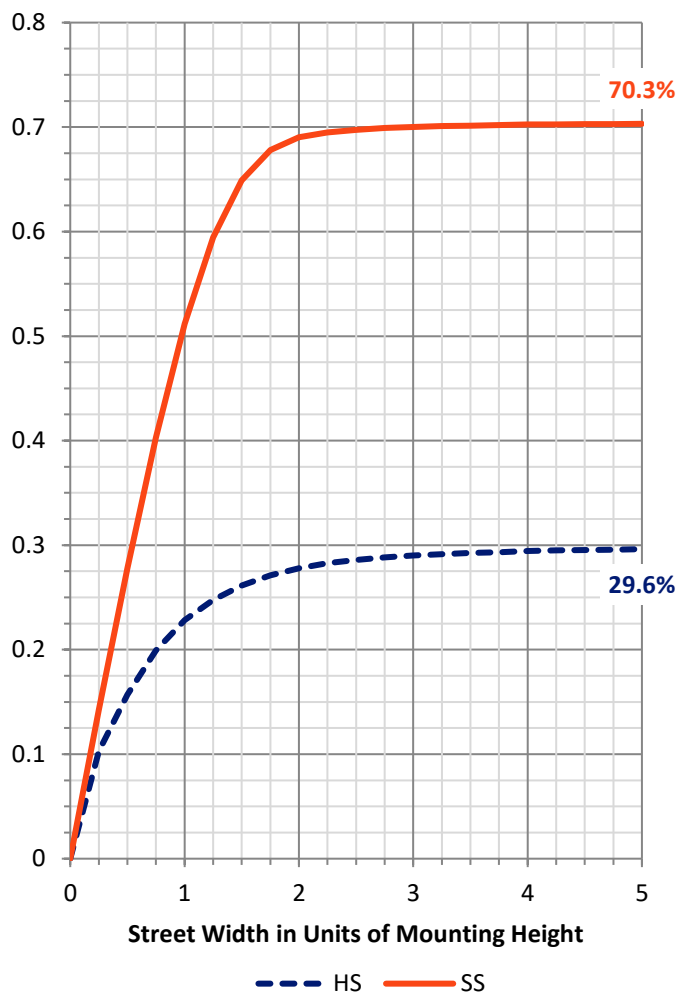
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1947.8	0.0	1947.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	4604.7	0.0	4604.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	6552.5	0.0	6552.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	2.3
10°-20°	417.9	6.4
20°-30°	708.4	10.8
30°-40°	1084.3	16.5
40°-50°	1445.8	22.1
50°-60°	1669.8	25.5
60°-70°	867.7	13.2
70°-80°	184.4	2.8
80°-90°	23.9	0.4
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°	6552.5	100.0
0°-180°	6552.5	100.0

Coefficient of Utilization



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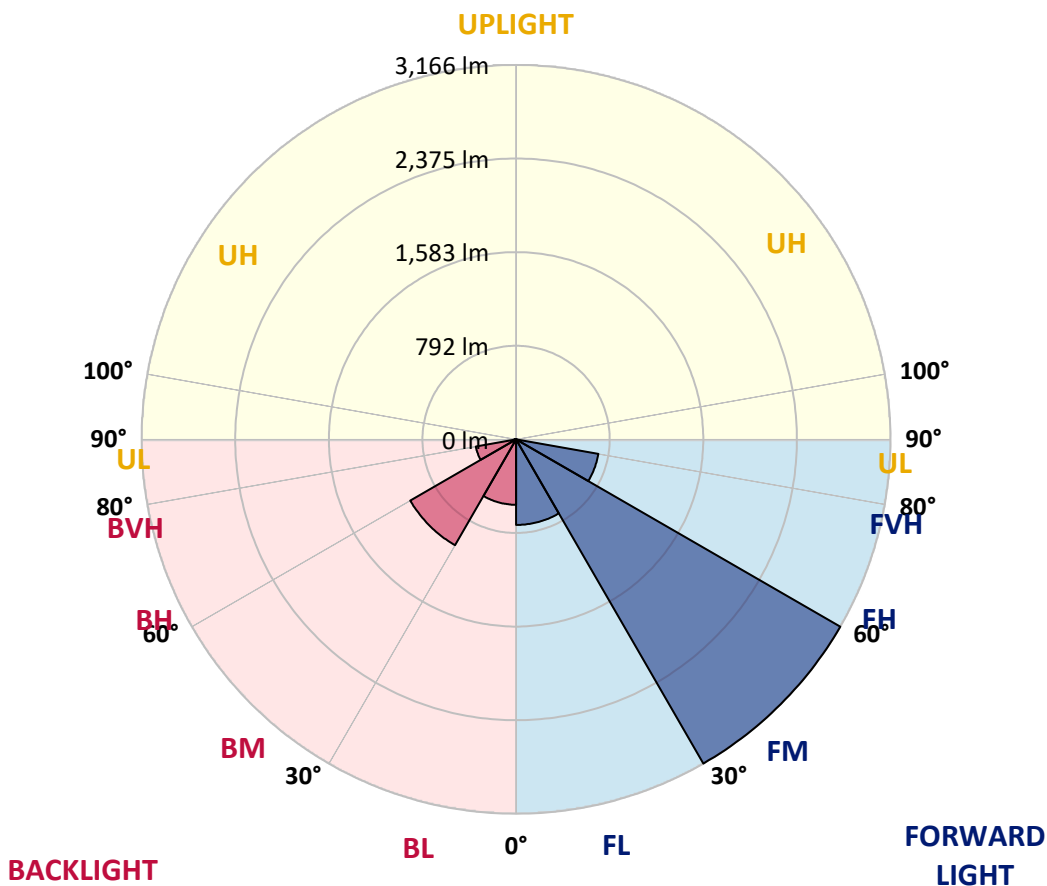
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.5	11.0			
FM (30°-60°)	3166.4	48.3			
FH (60°-80°)	706.5	10.8			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	553.1	8.4	B2/1000		
BM (30°-60°)	1033.5	15.8	B2/2500		
BH (60°-80°)	345.6	5.3	B1/500		G1/500
BVH (80°-90°)	15.6	0.2			G1/100
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°	65°	75°	79°	85°
0°	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9
2.5°	1549.9	1546.7	1547.8	1552.1	1568.1	1579.9	1592.3	1603.5	1614.2	1617.4	1620.1
5°	1494.7	1488.9	1490.5	1497.4	1516.2	1536.0	1558.0	1584.8	1610.5	1619.0	1630.3
7.5°	1455.6	1454.6	1457.2	1468.0	1487.8	1506.5	1534.9	1573.0	1617.4	1631.9	1651.7
10°	1403.7	1401.5	1412.2	1434.2	1466.9	1496.9	1530.6	1575.6	1637.8	1659.2	1689.8
12.5°	1362.4	1361.3	1372.6	1403.1	1444.9	1492.6	1539.2	1589.6	1665.1	1694.6	1732.1
15°	1386.5	1381.7	1382.2	1403.7	1441.2	1497.4	1560.6	1614.8	1692.4	1729.9	1778.2
17.5°	1456.7	1448.1	1441.7	1445.5	1466.9	1525.3	1593.3	1648.5	1724.0	1768.0	1826.9
20°	1553.7	1548.9	1531.2	1519.4	1524.2	1575.6	1644.8	1696.2	1765.3	1814.6	1877.8
22.5°	1683.9	1672.1	1648.0	1629.2	1614.8	1654.9	1718.7	1763.2	1822.6	1874.1	1940.0
25°	1845.1	1828.0	1789.9	1760.5	1729.4	1770.7	1827.4	1861.2	1901.4	1949.1	2011.7
27.5°	2009.6	1995.1	1952.8	1913.2	1874.6	1900.3	1967.8	1987.1	1982.8	2017.6	2071.2
30°	2184.8	2166.6	2126.4	2083.5	2033.7	2050.3	2110.9	2120.5	2075.0	2103.9	2140.3
32.5°	2369.6	2351.9	2317.1	2267.3	2211.0	2217.5	2234.1	2243.2	2199.8	2216.4	2244.3
35°	2557.7	2541.1	2505.7	2456.4	2415.2	2376.1	2334.3	2370.7	2345.5	2377.7	2375.5
37.5°	2729.7	2713.0	2691.1	2653.0	2582.3	2505.2	2408.7	2453.7	2492.8	2533.6	2526.6
40°	2845.9	2834.7	2840.0	2834.1	2743.0	2590.4	2445.2	2494.5	2601.1	2670.7	2667.0
42.5°	2946.1	2934.8	2965.9	2988.4	2881.3	2669.1	2462.8	2510.0	2670.2	2778.9	2773.6
45°	2990.6	2987.3	3038.8	3110.0	3007.7	2752.7	2508.4	2542.1	2722.7	2862.0	2841.6
47.5°	2937.5	2948.8	3050.0	3170.6	3112.7	2851.8	2601.6	2610.2	2791.3	2952.0	2894.7
50°	2832.0	2856.6	2993.2	3172.2	3189.3	2963.8	2730.7	2709.3	2883.4	3047.9	2922.5
52.5°	2678.2	2703.9	2926.8	3159.9	3233.3	3093.4	2902.7	2872.2	2999.7	3143.8	2927.3
55°	2325.2	2360.0	2774.7	3132.0	3276.1	3211.3	3096.6	3034.5	3149.7	3275.6	2975.0
57.5°	2017.1	2035.3	2403.9	3008.2	3284.7	3298.1	3234.9	3160.9	3298.6	3418.1	3028.6
60°	1480.3	1484.6	1816.2	2489.1	3021.6	3247.7	3223.6	3113.8	3227.9	3304.0	2783.2
62.5°	836.3	836.8	1101.5	1661.4	2257.1	2647.1	2662.1	2565.2	2469.3	2491.8	1937.3
65°	314.0	343.4	503.1	816.5	1301.3	1562.8	1624.9	1647.4	1487.8	1388.7	1038.8
67.5°	210.0	217.0	293.6	420.0	579.1	668.6	747.9	750.1	548.6	489.1	409.3
70°	160.2	167.2	230.9	300.6	293.6	271.1	293.1	285.0	294.7	302.7	311.3
72.5°	119.5	126.4	178.9	212.2	176.3	173.6	196.6	218.6	238.9	247.5	260.9
75°	79.3	84.6	120.5	113.6	97.5	115.2	143.6	165.5	177.3	187.5	197.7
77.5°	50.4	54.1	64.3	52.0	54.1	67.5	83.6	103.4	114.7	124.8	130.2
80°	23.0	22.5	22.0	24.6	30.5	39.6	50.4	62.1	70.7	75.0	78.2
82.5°	9.1	10.2	11.3	13.4	16.6	21.4	28.4	36.4	43.4	44.5	47.1
85°	3.8	4.3	4.8	5.9	7.5	9.6	11.8	16.6	20.9	22.5	24.1
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.7	4.8	5.4	5.9
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°	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9
2.5°	1634.6	1627.6	1639.4	1647.4	1654.9	1646.9	1644.2	1637.3	1636.2	1636.2	1639.9
5°	1649.6	1644.8	1657.1	1661.9	1661.4	1643.7	1633.0	1619.0	1612.1	1612.1	1613.1
7.5°	1676.4	1673.7	1680.7	1673.2	1656.0	1620.1	1584.8	1555.3	1535.5	1525.3	1528.5
10°	1720.8	1717.6	1711.7	1683.9	1634.6	1560.1	1487.8	1434.2	1402.1	1383.8	1384.9
12.5°	1764.2	1758.9	1738.0	1676.4	1575.1	1456.7	1361.9	1301.9	1266.5	1245.1	1240.3
15°	1811.9	1798.0	1753.0	1637.8	1478.1	1330.3	1231.2	1166.3	1128.3	1115.4	1114.9
17.5°	1857.4	1832.8	1751.4	1569.2	1361.9	1197.9	1098.3	1058.1	1051.7	1057.6	1059.2
20°	1903.5	1863.9	1733.7	1474.4	1223.7	1066.1	1014.7	1031.3	1055.4	1071.5	1075.3
22.5°	1951.2	1889.6	1693.5	1352.2	1077.9	977.2	998.6	1035.1	1065.1	1086.5	1088.6
25°	2004.8	1913.7	1633.5	1202.8	961.1	952.6	994.9	1033.5	1065.6	1090.3	1094.5
27.5°	2035.3	1914.2	1549.4	1049.0	907.6	942.9	985.8	1022.2	1054.4	1081.1	1086.0
30°	2065.3	1899.8	1416.0	924.2	892.0	931.7	970.2	1004.0	1034.5	1060.8	1066.7
32.5°	2107.6	1886.4	1262.2	852.4	882.9	921.0	952.6	982.6	1006.1	1017.9	1021.1
35°	2160.1	1869.2	1098.8	821.3	877.0	912.4	940.2	956.3	925.8	919.3	926.3
37.5°	2233.5	1853.2	936.0	807.9	873.3	909.2	933.8	892.6	855.1	840.1	845.4
40°	2312.8	1844.1	825.6	797.2	874.9	912.4	907.0	846.0	791.8	760.2	759.2
42.5°	2380.3	1830.1	754.9	790.2	879.2	924.7	870.6	804.7	724.3	705.6	706.1
45°	2425.9	1794.8	717.4	782.7	882.9	927.4	853.5	747.9	690.6	678.8	678.3
47.5°	2444.6	1730.5	693.3	770.9	882.4	905.4	818.6	724.3	667.0	663.8	665.9
50°	2432.3	1624.9	668.6	747.9	869.5	882.4	778.4	703.4	650.9	668.6	681.5
52.5°	2386.8	1488.3	639.2	716.3	846.5	856.1	758.1	690.6	639.2	662.7	672.9
55°	2375.0	1377.4	601.6	675.0	812.2	809.5	736.7	684.2	631.1	622.0	623.6
57.5°	2359.4	1269.2	539.5	601.1	725.4	729.7	716.3	676.7	610.2	607.5	610.2
60°	2049.8	972.9	481.1	518.6	595.8	618.8	693.3	662.7	576.5	565.2	564.7
62.5°	1338.8	589.3	428.1	452.2	485.4	512.2	632.2	622.5	539.5	532.5	537.4
65°	720.0	420.0	389.5	404.0	422.2	442.5	524.0	554.5	487.5	462.9	463.4
67.5°	368.1	357.3	360.6	370.7	384.7	394.8	422.7	449.5	415.7	394.8	394.3
70°	315.0	323.6	328.4	334.3	343.4	341.8	344.5	349.3	346.6	336.5	335.9
72.5°	268.4	281.8	282.9	283.9	287.2	279.7	274.8	266.8	267.3	268.9	269.5
75°	204.1	217.0	220.2	218.6	221.8	212.2	205.7	197.7	188.0	186.4	187.5
77.5°	132.9	143.0	147.9	146.8	148.4	140.9	137.7	129.1	117.9	113.6	113.6
80°	80.4	86.3	90.0	91.1	92.7	87.3	82.0	74.5	69.6	64.8	64.8
82.5°	48.8	52.5	55.2	55.2	56.8	50.9	46.6	41.3	39.1	34.8	34.8
85°	24.6	27.3	28.4	27.9	26.8	22.0	20.4	17.7	16.6	14.5	14.5
87.5°	5.9	7.5	7.5	5.4	5.4	2.7	1.6	0.5	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)