

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: P630856

Luminaire Tested: GWS-SA1E-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630856
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6643.5 lumens
Efficiency: N/A
Efficacy: 113.8 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

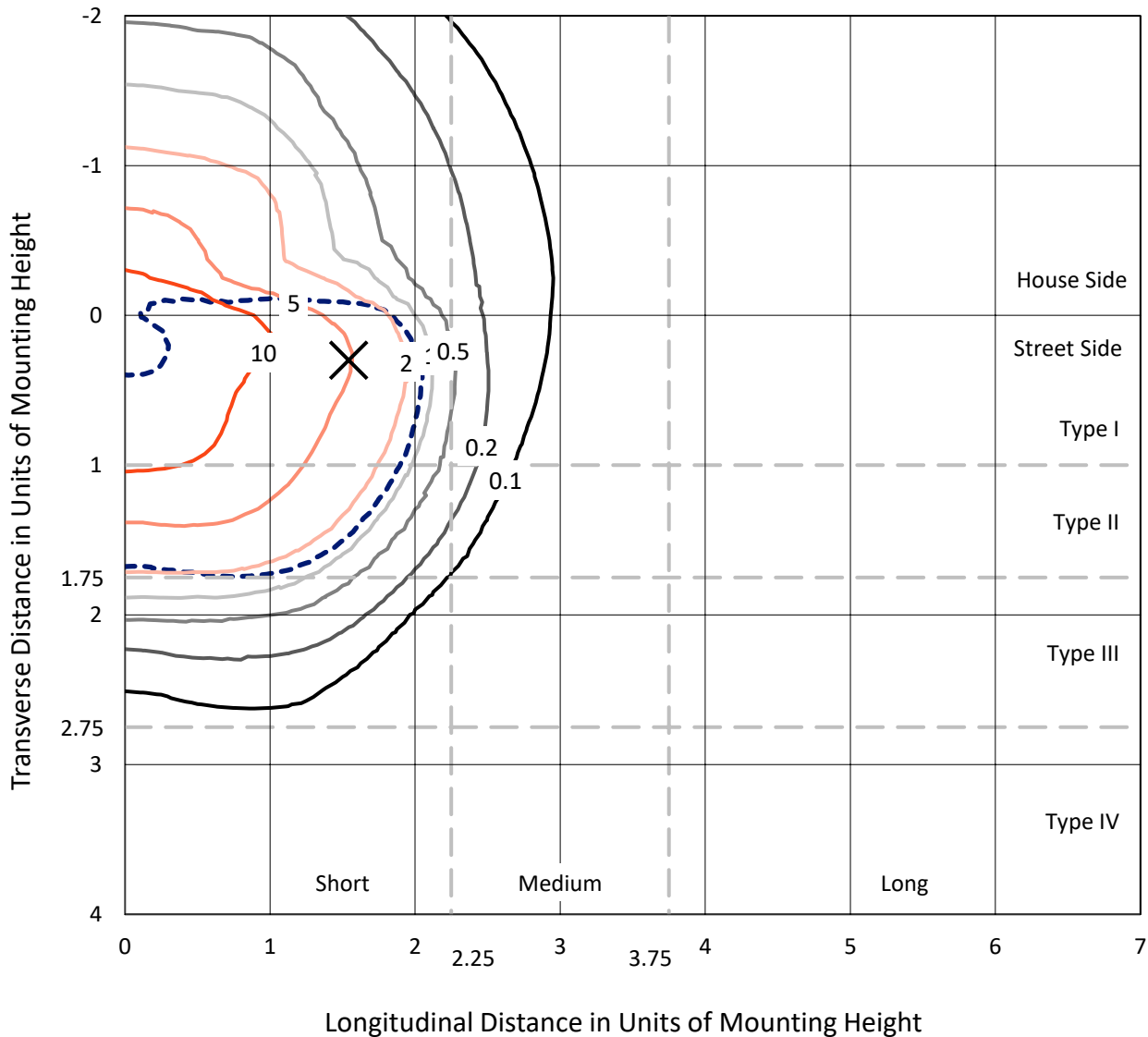
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

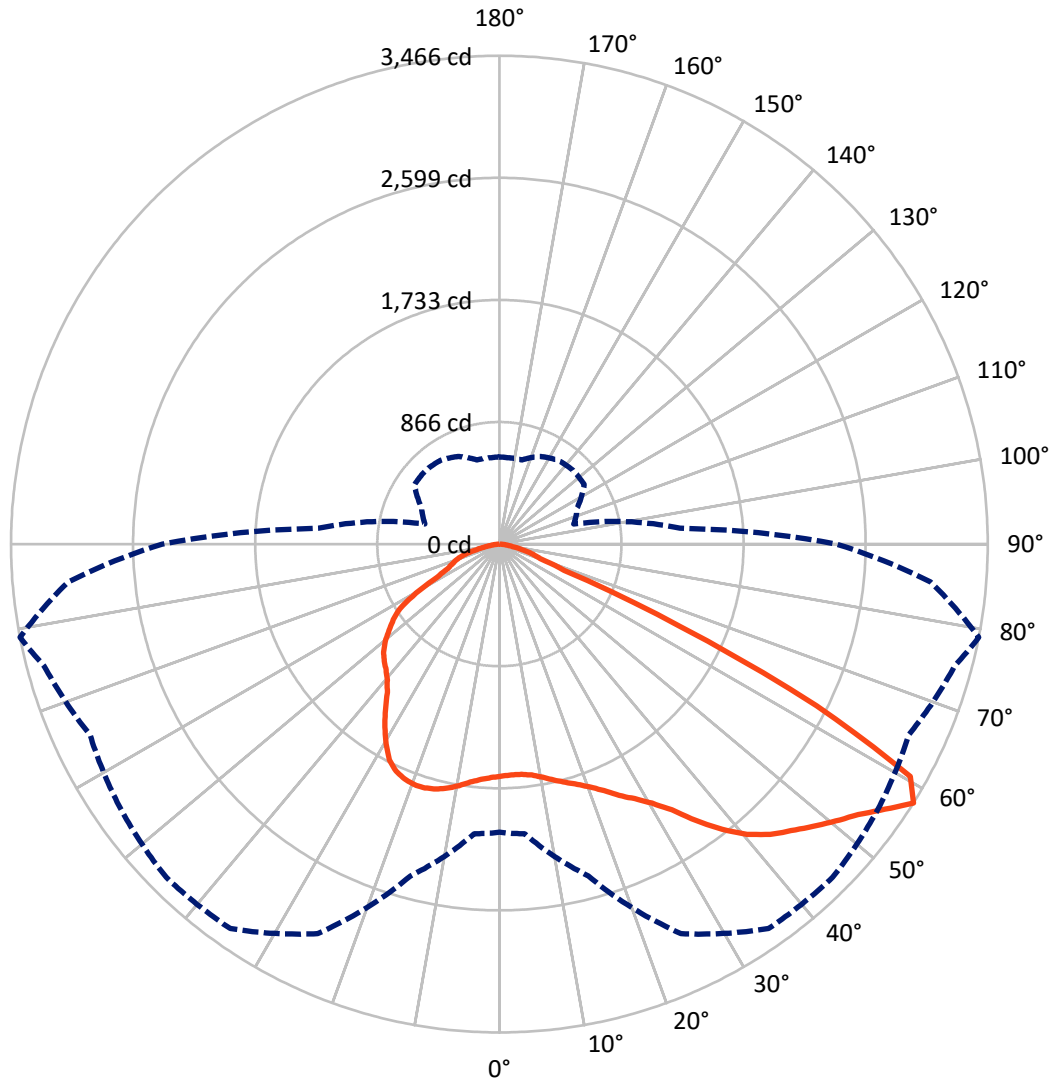
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 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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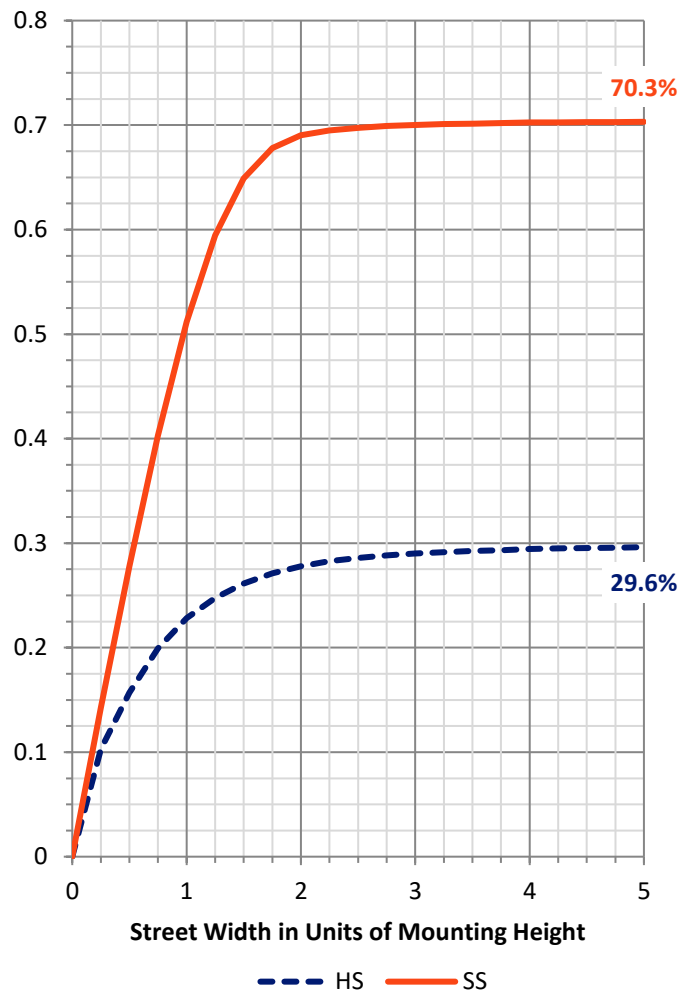
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.8	0.0	1974.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	4668.7	0.0	4668.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	6643.5	0.0	6643.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	2.3
10°-20°	423.7	6.4
20°-30°	718.2	10.8
30°-40°	1099.3	16.5
40°-50°	1465.9	22.1
50°-60°	1692.9	25.5
60°-70°	879.7	13.2
70°-80°	187.0	2.8
80°-90°	24.2	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°	6643.5	100.0
0°-180°	6643.5	100.0

Coefficient of Utilization



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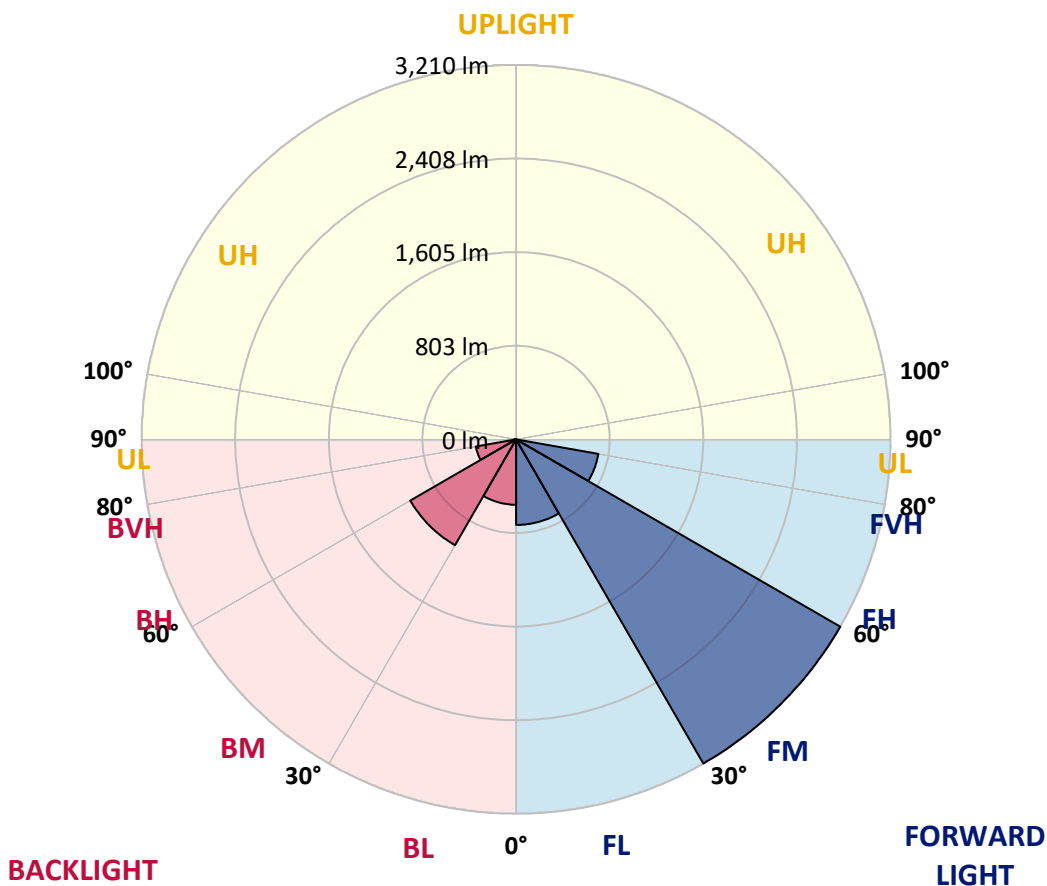
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.6	11.0			
FM (30°-60°)	3210.3	48.3			
FH (60°-80°)	716.3	10.8			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	560.8	8.4	B2/1000		
BM (30°-60°)	1047.8	15.8	B2/2500		
BH (60°-80°)	350.4	5.3	B1/500		G1/500
BVH (80°-90°)	15.8	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°	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4
2.5°	1571.5	1568.2	1569.3	1573.6	1589.9	1601.9	1614.4	1625.8	1636.6	1639.9	1642.6
5°	1515.5	1509.5	1511.2	1518.2	1537.2	1557.3	1579.6	1606.8	1632.8	1641.5	1652.9
7.5°	1475.9	1474.8	1477.5	1488.3	1508.4	1527.5	1556.2	1594.8	1639.9	1654.6	1674.7
10°	1423.2	1421.0	1431.9	1454.1	1487.3	1517.7	1551.9	1597.5	1660.5	1682.3	1713.2
12.5°	1381.3	1380.2	1391.7	1422.6	1465.0	1513.3	1560.6	1611.6	1688.2	1718.1	1756.1
15°	1405.8	1400.9	1401.4	1423.2	1461.2	1518.2	1582.3	1637.2	1715.9	1754.0	1802.9
17.5°	1476.9	1468.2	1461.7	1465.5	1487.3	1546.5	1615.5	1671.4	1748.0	1792.5	1852.3
20°	1575.3	1570.4	1552.4	1540.5	1545.4	1597.5	1667.6	1719.7	1789.8	1839.8	1903.9
22.5°	1707.3	1695.3	1670.9	1651.8	1637.2	1677.9	1742.6	1787.6	1847.9	1900.1	1966.9
25°	1870.8	1853.4	1814.8	1784.9	1753.4	1795.2	1852.8	1887.0	1927.8	1976.1	2039.7
27.5°	2037.5	2022.8	1979.9	1939.7	1900.6	1926.7	1995.1	2014.7	2010.4	2045.7	2100.0
30°	2215.1	2196.7	2155.9	2112.5	2062.0	2078.8	2140.2	2150.0	2103.8	2133.1	2170.0
32.5°	2402.5	2384.6	2349.3	2298.8	2241.8	2248.3	2265.1	2274.3	2230.3	2247.2	2275.4
35°	2593.2	2576.4	2540.5	2490.5	2448.7	2409.1	2366.7	2403.6	2378.1	2410.7	2408.5
37.5°	2767.6	2750.7	2728.5	2689.9	2618.2	2540.0	2442.2	2487.8	2527.5	2568.8	2561.7
40°	2885.4	2874.0	2879.5	2873.5	2781.1	2626.3	2479.1	2529.1	2637.2	2707.8	2704.0
42.5°	2987.0	2975.6	3007.1	3029.9	2921.3	2706.2	2497.1	2544.9	2707.3	2817.5	2812.1
45°	3032.1	3028.8	3081.0	3153.2	3049.5	2790.9	2543.2	2577.4	2760.5	2901.7	2881.1
47.5°	2978.3	2989.7	3092.4	3214.6	3155.9	2891.4	2637.7	2646.4	2830.0	2993.0	2934.9
50°	2871.3	2896.3	3034.8	3216.2	3233.6	3004.9	2768.6	2746.9	2923.5	3090.2	2963.1
52.5°	2715.4	2741.5	2967.5	3203.7	3278.2	3136.4	2943.0	2912.0	3041.3	3187.4	2968.0
55°	2357.5	2392.8	2813.2	3175.5	3321.6	3255.9	3139.6	3076.6	3193.4	3321.1	3016.3
57.5°	2045.1	2063.6	2437.3	3050.0	3330.3	3343.9	3279.8	3204.8	3344.4	3465.6	3070.7
60°	1500.8	1505.2	1841.4	2523.7	3063.6	3292.8	3268.4	3157.0	3272.7	3349.9	2821.9
62.5°	847.9	848.5	1116.8	1684.4	2288.5	2683.9	2699.1	2600.8	2503.6	2526.4	1964.2
65°	318.3	348.2	510.1	827.8	1319.4	1584.5	1647.5	1670.3	1508.4	1408.0	1053.2
67.5°	212.9	220.0	297.7	425.9	587.2	677.9	758.3	760.5	556.2	495.9	415.0
70°	162.4	169.5	234.1	304.7	297.7	274.9	297.1	289.0	298.8	306.9	315.6
72.5°	121.1	128.2	181.4	215.1	178.7	176.0	199.4	221.6	242.3	251.0	264.5
75°	80.4	85.8	122.2	115.2	98.9	116.8	145.6	167.8	179.8	190.1	200.4
77.5°	51.1	54.9	65.2	52.7	54.9	68.4	84.7	104.8	116.2	126.6	132.0
80°	23.4	22.8	22.3	25.0	31.0	40.2	51.1	63.0	71.7	76.0	79.3
82.5°	9.2	10.3	11.4	13.6	16.8	21.7	28.8	36.9	44.0	45.1	47.8
85°	3.8	4.3	4.9	6.0	7.6	9.8	12.0	16.8	21.2	22.8	24.4
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	1.6	2.7	4.9	5.4	6.0
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°	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4	1646.4
2.5°	1657.3	1650.2	1662.2	1670.3	1677.9	1669.8	1667.1	1660.0	1658.9	1658.9	1662.7
5°	1672.5	1667.6	1680.1	1685.0	1684.4	1666.5	1655.6	1641.5	1634.5	1634.5	1635.5
7.5°	1699.6	1696.9	1704.0	1696.4	1679.0	1642.6	1606.8	1576.9	1556.8	1546.5	1549.7
10°	1744.7	1741.5	1735.5	1707.3	1657.3	1581.8	1508.4	1454.1	1421.5	1403.1	1404.1
12.5°	1788.7	1783.3	1762.1	1699.6	1597.0	1476.9	1380.8	1320.0	1284.1	1262.4	1257.5
15°	1837.1	1823.0	1777.3	1660.5	1498.7	1348.7	1248.3	1182.5	1144.0	1130.9	1130.4
17.5°	1883.2	1858.3	1775.7	1591.0	1380.8	1214.6	1113.5	1072.8	1066.3	1072.3	1073.9
20°	1930.0	1889.8	1757.8	1494.9	1240.6	1081.0	1028.8	1045.6	1070.1	1086.4	1090.2
22.5°	1978.3	1915.8	1717.0	1371.0	1092.9	990.8	1012.5	1049.4	1079.9	1101.6	1103.8
25°	2032.6	1940.3	1656.2	1219.5	974.5	965.8	1008.7	1047.8	1080.4	1105.4	1109.7
27.5°	2063.6	1940.8	1570.9	1063.6	920.2	956.0	999.5	1036.4	1069.0	1096.2	1101.0
30°	2094.0	1926.2	1435.7	937.0	904.4	944.6	983.7	1017.9	1048.9	1075.5	1081.5
32.5°	2136.9	1912.6	1279.8	864.2	895.2	933.7	965.8	996.2	1020.1	1032.1	1035.3
35°	2190.1	1895.2	1114.1	832.7	889.2	925.1	953.3	969.6	938.6	932.1	939.2
37.5°	2264.6	1878.9	949.0	819.1	885.4	921.8	946.8	905.0	866.9	851.7	857.2
40°	2345.0	1869.7	837.1	808.3	887.0	925.1	919.6	857.7	802.8	770.8	769.7
42.5°	2413.4	1855.5	765.4	801.2	891.4	937.5	882.7	815.9	734.4	715.4	715.9
45°	2459.6	1819.7	727.3	793.6	895.2	940.3	865.3	758.3	700.2	688.2	687.7
47.5°	2478.6	1754.5	702.9	781.7	894.6	918.0	830.0	734.4	676.3	673.0	675.2
50°	2466.1	1647.5	677.9	758.3	881.6	894.6	789.3	713.2	660.0	677.9	690.9
52.5°	2419.9	1509.0	648.0	726.2	858.2	868.0	768.6	700.2	648.0	671.9	682.2
55°	2408.0	1396.5	610.0	684.4	823.5	820.8	746.9	693.7	639.9	630.6	632.3
57.5°	2392.2	1286.8	547.0	609.5	735.5	739.8	726.2	686.1	618.7	616.0	618.7
60°	2078.2	986.4	487.8	525.8	604.0	627.4	702.9	671.9	584.5	573.1	572.5
62.5°	1357.4	597.5	434.0	458.5	492.1	519.3	641.0	631.2	547.0	539.9	544.8
65°	730.0	425.9	394.9	409.6	428.0	448.7	531.2	562.2	494.3	469.3	469.9
67.5°	373.2	362.3	365.6	375.9	390.0	400.3	428.6	455.7	421.5	400.3	399.8
70°	319.4	328.1	333.0	339.0	348.2	346.6	349.3	354.2	351.4	341.1	340.6
72.5°	272.1	285.7	286.8	287.9	291.2	283.5	278.7	270.5	271.1	272.7	273.2
75°	207.0	220.0	223.3	221.6	224.9	215.1	208.6	200.4	190.7	189.0	190.1
77.5°	134.7	145.0	149.9	148.8	150.5	142.9	139.6	130.9	119.5	115.2	115.2
80°	81.5	87.5	91.3	92.3	94.0	88.5	83.1	75.5	70.6	65.7	65.7
82.5°	49.4	53.2	55.9	55.9	57.6	51.6	47.3	41.8	39.7	35.3	35.3
85°	25.0	27.7	28.8	28.2	27.2	22.3	20.6	17.9	16.8	14.7	14.7
87.5°	6.0	7.6	7.6	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)