

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: P630985

Luminaire Tested: GWS-SA1E-827-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-827-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5672.4 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

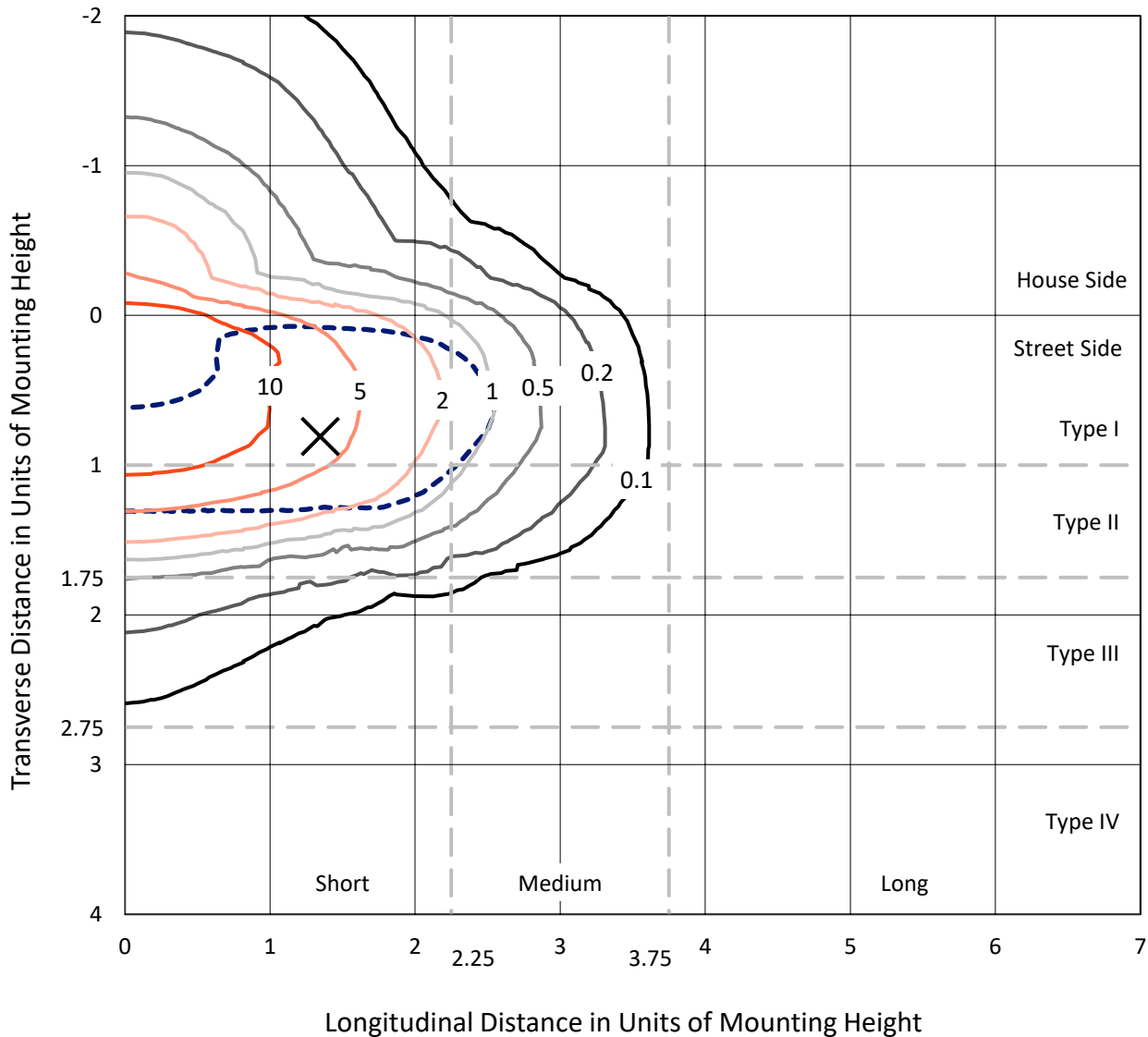
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630985
 CATALOG NUMBER: GWS-SA1E-827-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

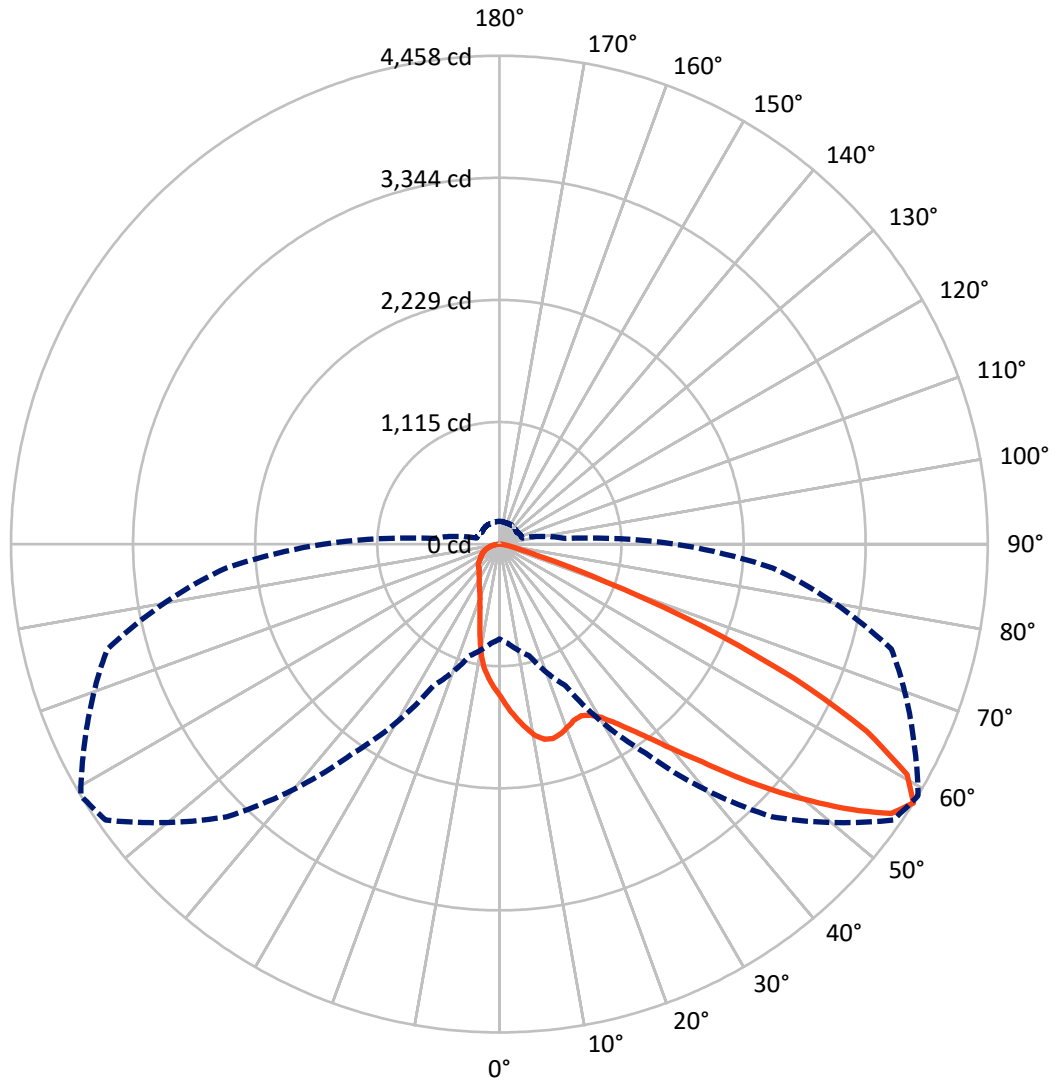
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

REPORT NUMBER: P630985
CATALOG NUMBER: GWS-SA1E-827-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P630985

CATALOG NUMBER: GWS-SA1E-827-U-AFL-W

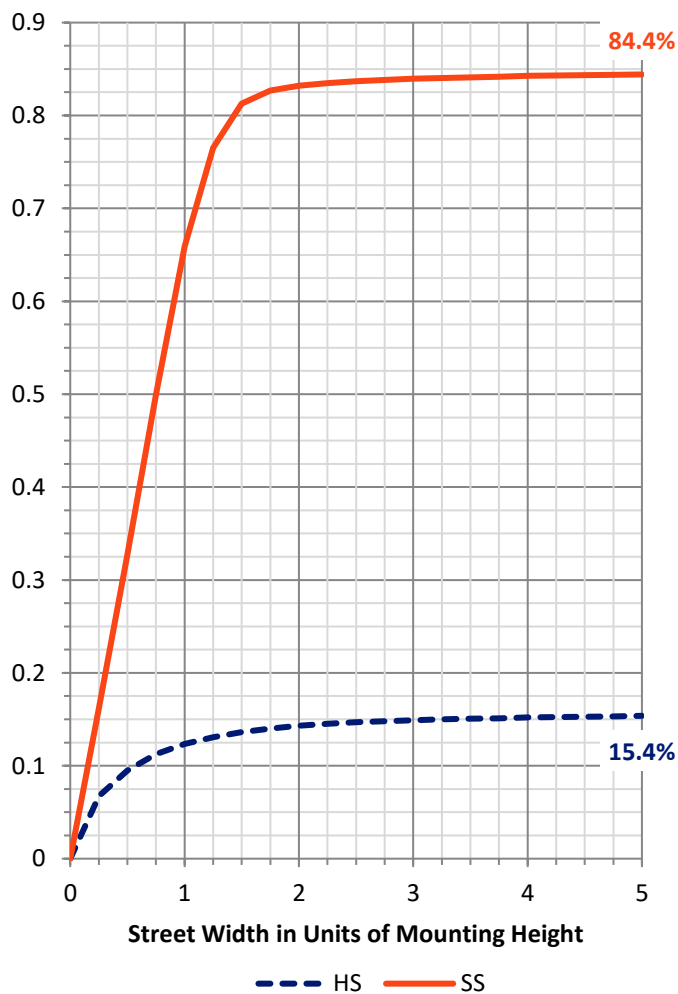
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.3	0.0	880.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4792.1	0.0	4792.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	5672.4	0.0	5672.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	2.3
10°-20°	327.6	5.8
20°-30°	531.1	9.4
30°-40°	854.3	15.1
40°-50°	1326.7	23.4
50°-60°	1429.0	25.2
60°-70°	829.3	14.6
70°-80°	216.5	3.8
80°-90°	28.5	0.5
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°	5672.4	100.0
0°-180°	5672.4	100.0

Coefficient of Utilization



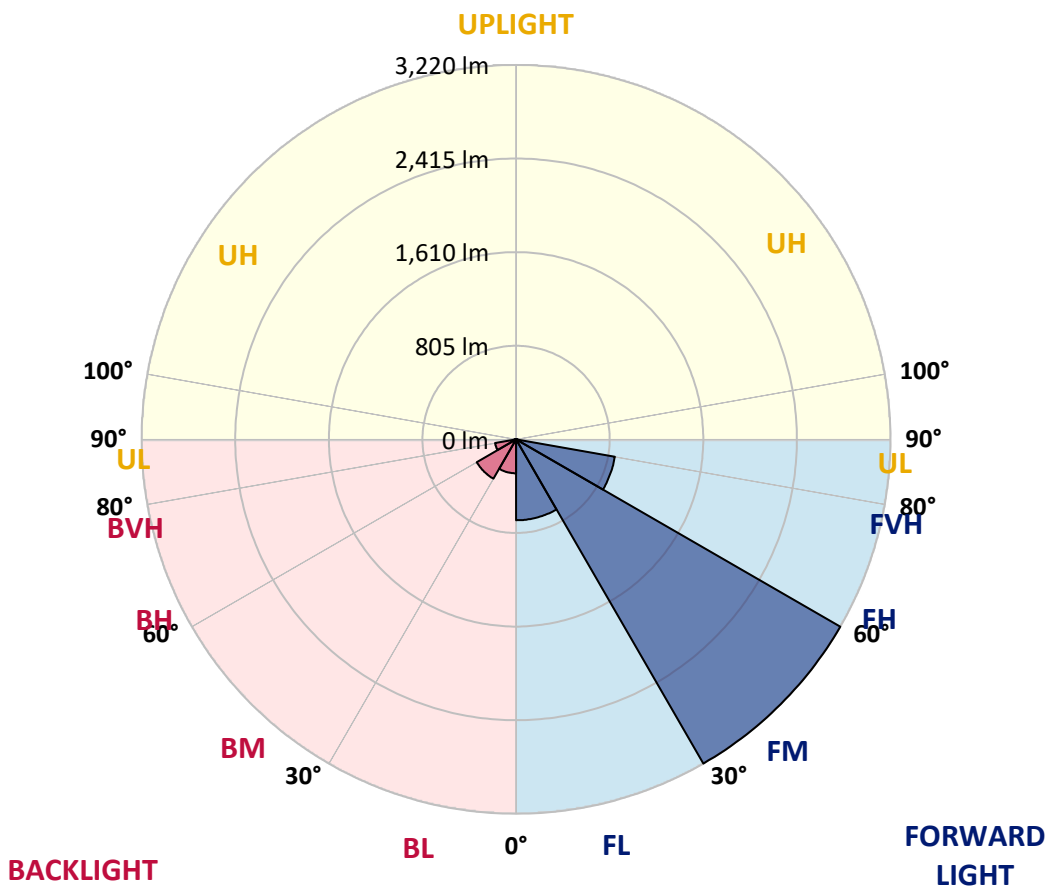
REPORT NUMBER: P630985

CATALOG NUMBER: GWS-SA1E-827-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.9	12.3			
FM (30°-60°)	3219.7	56.8			
FH (60°-80°)	862.7	15.2			G1/1800
FVH (80°-90°)	13.7	0.2			G1/100
BL (0°-30°)	292.1	5.1	B1/500		
BM (30°-60°)	390.3	6.9	B1/1000		
BH (60°-80°)	183.1	3.2	B1/500		G1/500
BVH (80°-90°)	14.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P630985
 CATALOG NUMBER: GWS-SA1E-827-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1579.3	1566.2	1575.4	1559.0	1552.2	1534.2	1511.1	1495.5	1471.5	1440.4	1413.2
5°	1736.3	1727.1	1729.1	1711.5	1696.0	1666.0	1618.5	1592.1	1551.4	1488.7	1430.4
7.5°	1731.5	1742.3	1748.3	1763.4	1767.8	1765.0	1722.3	1685.6	1640.8	1546.6	1458.7
10°	1552.2	1572.6	1590.9	1642.8	1705.9	1785.8	1795.8	1773.8	1728.7	1620.5	1492.7
12.5°	1356.9	1372.5	1388.9	1451.2	1547.8	1707.5	1815.7	1829.3	1811.4	1693.6	1531.0
15°	1261.1	1268.3	1283.8	1325.0	1402.0	1579.3	1781.0	1840.5	1872.9	1771.0	1574.2
17.5°	1257.1	1260.3	1267.9	1289.8	1343.3	1480.3	1718.3	1818.1	1921.2	1852.9	1624.5
20°	1339.7	1331.4	1326.6	1326.2	1352.5	1447.2	1657.6	1782.2	1943.9	1936.7	1678.4
22.5°	1454.4	1457.2	1446.8	1421.2	1418.0	1470.7	1627.3	1745.9	1950.7	2011.0	1728.3
25°	1616.9	1630.9	1600.1	1551.4	1527.4	1539.0	1646.0	1734.7	1949.9	2072.9	1759.4
27.5°	1806.6	1817.3	1786.2	1722.3	1672.8	1644.8	1701.9	1767.8	1956.7	2126.4	1778.2
30°	2022.6	2026.2	1983.5	1916.4	1844.1	1784.2	1795.0	1836.1	1991.5	2196.7	1800.2
32.5°	2286.6	2301.7	2237.0	2130.8	2029.8	1953.1	1920.0	1946.3	2066.5	2279.8	1834.1
35°	2621.6	2626.8	2544.5	2392.4	2249.4	2143.2	2073.7	2087.7	2180.7	2396.0	1885.2
37.5°	2937.5	2942.7	2855.2	2713.8	2509.4	2364.0	2263.4	2257.0	2326.9	2560.1	1968.7
40°	3137.9	3152.7	3113.6	3024.9	2829.6	2633.6	2497.0	2475.0	2518.6	2761.0	2084.9
42.5°	3245.7	3252.1	3251.3	3262.9	3146.7	2951.8	2760.6	2716.6	2745.8	2977.8	2202.3
45°	3246.5	3262.5	3305.2	3416.7	3421.9	3300.5	3093.6	3024.9	2998.2	3196.2	2324.9
47.5°	3101.2	3118.4	3235.8	3455.0	3616.7	3644.3	3492.5	3354.8	3242.2	3384.3	2425.5
50°	2661.1	2704.3	2927.9	3315.6	3655.1	3919.8	3873.1	3686.2	3459.0	3529.7	2488.6
52.5°	2279.0	2277.4	2415.1	2921.9	3494.9	4041.2	4241.3	4027.2	3673.4	3621.9	2504.6
55°	1668.8	1678.0	1818.9	2234.6	3067.6	3923.8	4443.7	4341.1	3919.4	3671.0	2498.2
57.5°	865.3	910.9	1055.4	1426.0	2330.9	3519.7	4389.8	4458.1	4169.4	3705.8	2506.6
60°	437.3	428.5	480.4	680.9	1350.5	2749.0	4057.6	4275.2	4214.5	3732.9	2511.8
62.5°	291.9	289.5	275.1	315.5	551.9	1628.1	3459.0	3764.1	3901.0	3669.0	2445.5
65°	252.8	248.0	221.6	220.0	267.9	675.3	2535.3	2959.0	3224.2	3385.1	2287.0
67.5°	227.6	220.4	193.7	180.5	192.5	296.7	1428.8	1984.7	2380.8	2862.8	1939.5
70°	203.3	199.7	172.9	153.7	152.5	180.9	526.3	1024.3	1456.8	1953.1	1418.0
72.5°	182.1	175.7	152.9	134.6	125.4	128.2	228.4	394.5	753.9	1218.4	848.2
75°	157.7	152.9	133.0	114.6	103.4	93.8	139.4	182.5	343.8	579.0	400.5
77.5°	121.8	118.6	105.0	91.0	84.7	69.9	84.7	115.0	158.9	244.0	208.4
80°	70.7	72.7	78.3	71.1	62.3	49.9	55.1	66.3	95.4	132.2	118.2
82.5°	35.5	37.9	50.7	41.1	37.1	29.2	32.7	39.1	49.9	73.1	46.3
85°	2.8	2.8	9.2	10.4	12.8	10.4	13.2	16.0	22.8	29.2	15.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.0	3.6	6.8	4.4
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°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1394.9	1374.5	1350.1	1330.2	1299.4	1283.0	1262.3	1236.7	1226.3	1221.5	1218.8
5°	1397.7	1361.7	1309.8	1261.9	1208.8	1166.8	1120.1	1071.4	1043.4	1036.7	1031.9
7.5°	1408.0	1357.7	1275.1	1196.0	1097.4	1005.9	916.9	828.6	783.5	766.3	764.7
10°	1422.4	1356.1	1239.9	1108.5	942.0	797.5	693.2	624.2	595.0	585.4	582.2
12.5°	1440.4	1354.9	1193.6	987.1	762.7	626.1	566.6	555.5	559.5	558.7	558.7
15°	1463.1	1356.5	1137.7	849.8	617.0	543.5	544.7	557.9	570.2	572.2	572.2
17.5°	1487.9	1354.9	1056.6	712.0	529.5	523.9	542.3	560.7	571.8	573.4	573.4
20°	1514.7	1347.3	954.4	582.2	491.2	511.5	531.5	545.9	552.7	554.3	554.3
22.5°	1530.6	1325.8	843.4	492.8	466.8	492.0	505.2	519.9	520.7	507.9	507.5
25°	1528.2	1285.4	716.8	435.3	440.9	462.8	479.6	469.2	456.4	449.2	448.0
27.5°	1513.1	1224.7	587.8	391.7	410.1	434.9	429.7	420.9	417.7	409.7	408.9
30°	1493.9	1150.1	472.0	357.8	378.2	400.9	392.9	392.1	388.9	380.2	380.2
32.5°	1475.5	1073.0	384.6	332.6	357.8	359.4	370.6	371.4	369.8	354.6	353.0
35°	1470.3	995.9	325.5	312.7	337.8	337.0	353.0	352.6	325.1	303.9	303.5
37.5°	1485.9	917.7	290.3	296.3	310.3	320.7	333.4	310.3	301.1	288.3	287.5
40°	1519.0	845.4	272.3	286.7	292.7	307.9	287.9	289.5	287.1	277.5	276.3
42.5°	1563.0	783.9	262.4	283.5	282.7	286.7	264.8	271.1	274.7	267.6	266.4
45°	1605.3	730.4	257.2	271.5	275.5	252.4	248.0	254.0	259.6	256.8	255.6
47.5°	1636.5	684.1	254.4	255.2	266.4	240.8	233.6	236.4	243.2	244.4	244.0
50°	1646.0	644.5	251.2	241.6	239.2	229.2	223.6	222.8	230.8	236.4	237.2
52.5°	1627.7	609.4	242.8	229.6	218.0	219.6	217.6	213.6	221.6	229.2	230.0
55°	1600.5	589.4	229.6	218.0	204.5	210.8	211.6	208.1	213.2	218.4	218.4
57.5°	1602.5	601.0	216.8	207.3	192.5	200.9	205.3	203.7	203.7	207.7	208.1
60°	1615.7	617.8	208.4	193.7	180.5	189.3	199.3	197.7	194.1	199.3	199.3
62.5°	1577.7	595.4	202.9	180.5	167.7	178.1	190.1	189.3	185.3	193.7	194.5
65°	1465.9	535.5	196.5	164.1	154.9	166.9	177.3	180.1	176.5	187.7	189.7
67.5°	1228.7	450.4	184.1	148.6	142.2	153.3	163.3	167.3	164.5	177.7	179.3
70°	916.1	364.6	164.5	131.4	126.6	136.6	145.8	147.4	147.8	163.3	164.9
72.5°	584.2	283.5	138.6	112.2	108.6	116.2	123.0	129.4	132.2	147.0	146.6
75°	325.9	210.8	111.4	95.0	88.7	94.6	102.6	110.2	118.2	139.8	142.2
77.5°	187.7	148.2	88.3	76.3	68.7	75.1	81.9	92.6	116.6	135.4	133.0
80°	105.8	96.2	66.7	55.9	51.1	55.9	61.1	81.5	91.8	99.8	101.0
82.5°	49.5	53.9	45.5	34.3	34.3	37.5	42.3	63.1	69.5	56.7	49.5
85°	18.0	24.4	22.4	17.6	15.6	15.2	26.4	35.9	22.4	20.0	17.2
87.5°	4.8	6.8	6.4	4.4	2.4	2.0	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)