

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: P631037

Luminaire Tested: GWS-SA1E-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4533.6 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

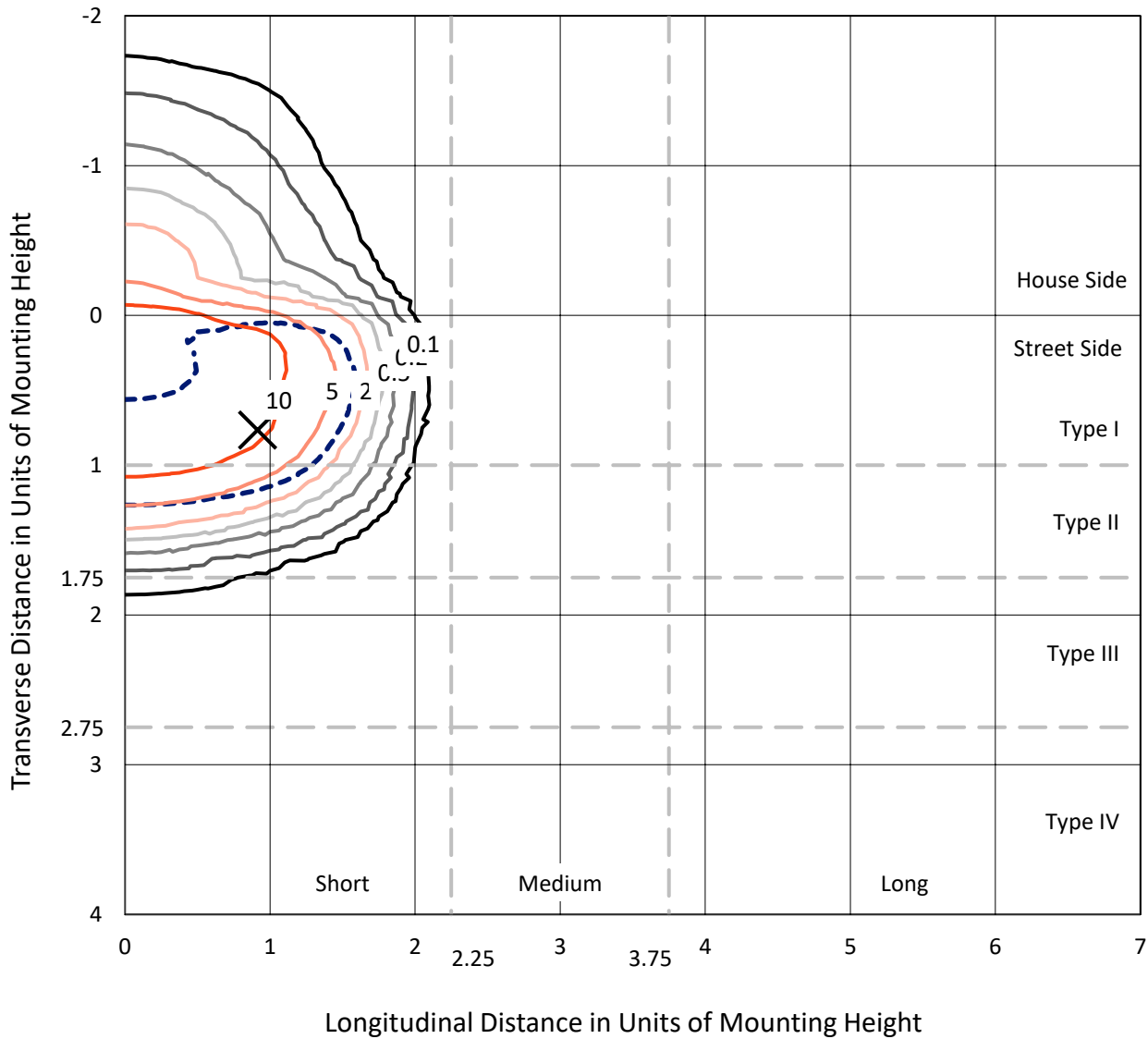
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

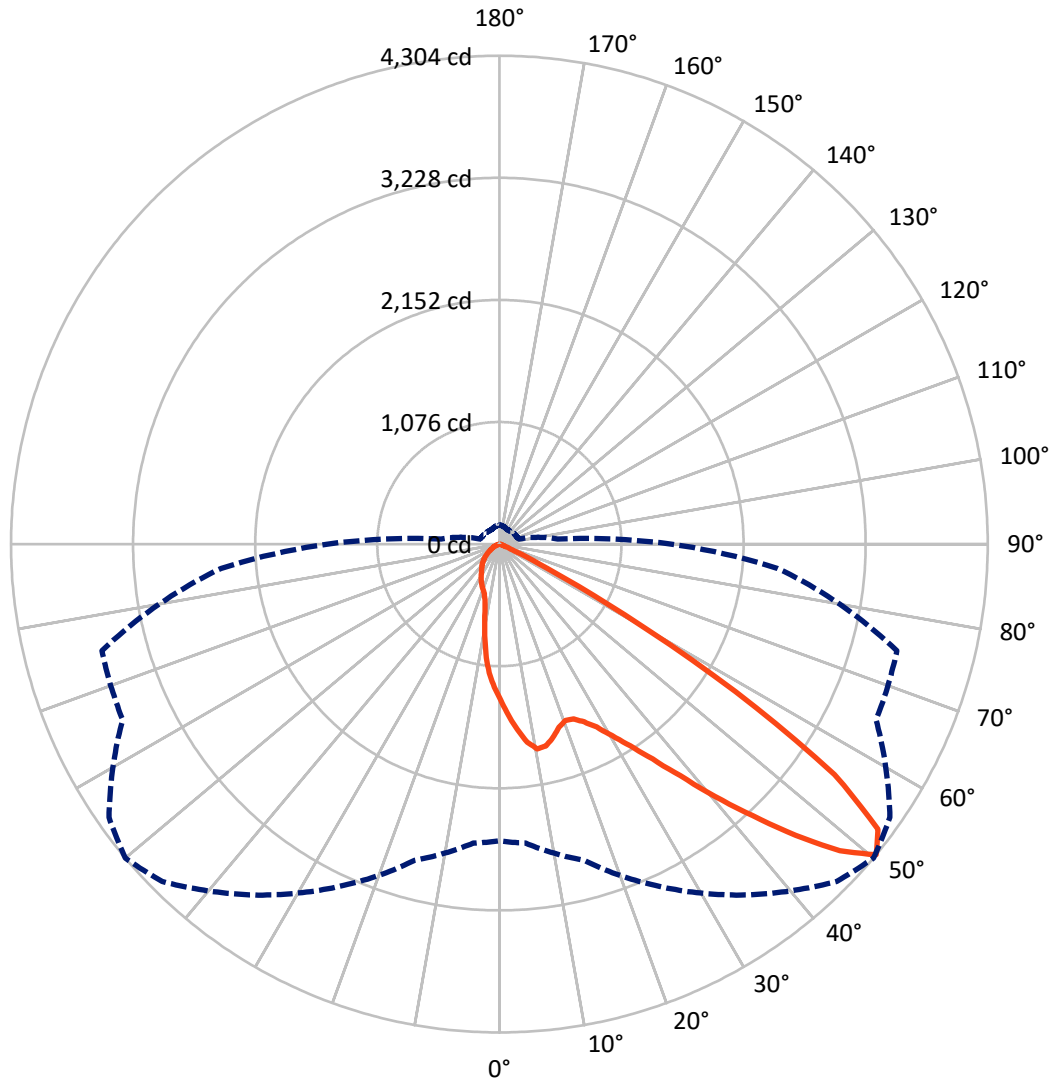
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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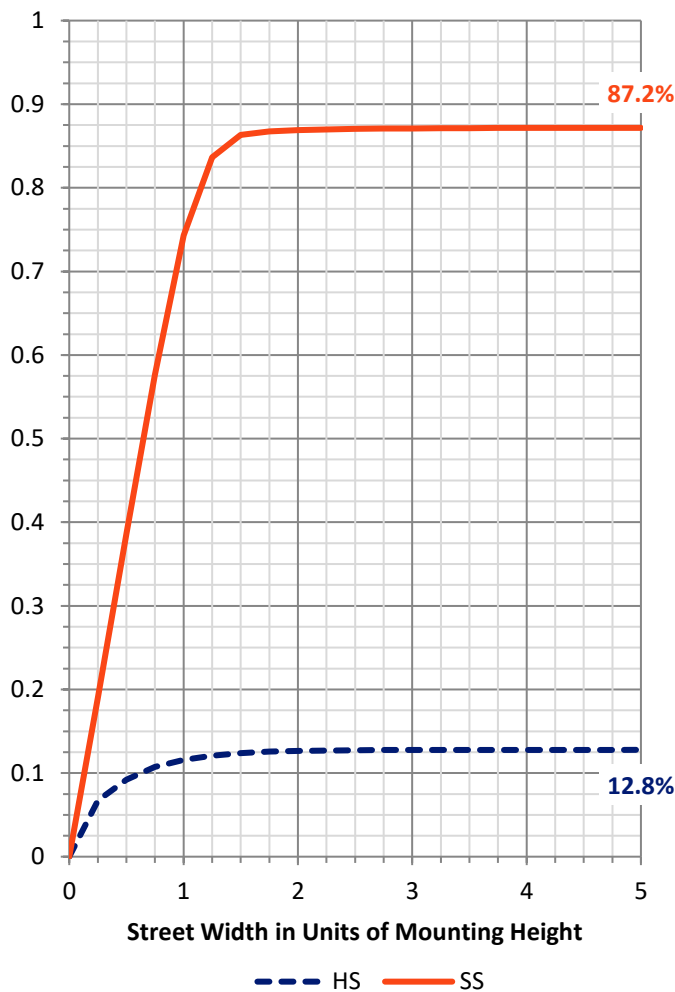
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	582.5	0.0	582.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3951.1	0.0	3951.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	4533.6	0.0	4533.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	2.8
10°-20°	328.7	7.3
20°-30°	542.5	12.0
30°-40°	895.3	19.7
40°-50°	1416.6	31.2
50°-60°	1072.5	23.7
60°-70°	134.2	3.0
70°-80°	15.2	0.3
80°-90°	1.2	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°	4533.6	100.0
0°-180°	4533.6	100.0

Coefficient of Utilization



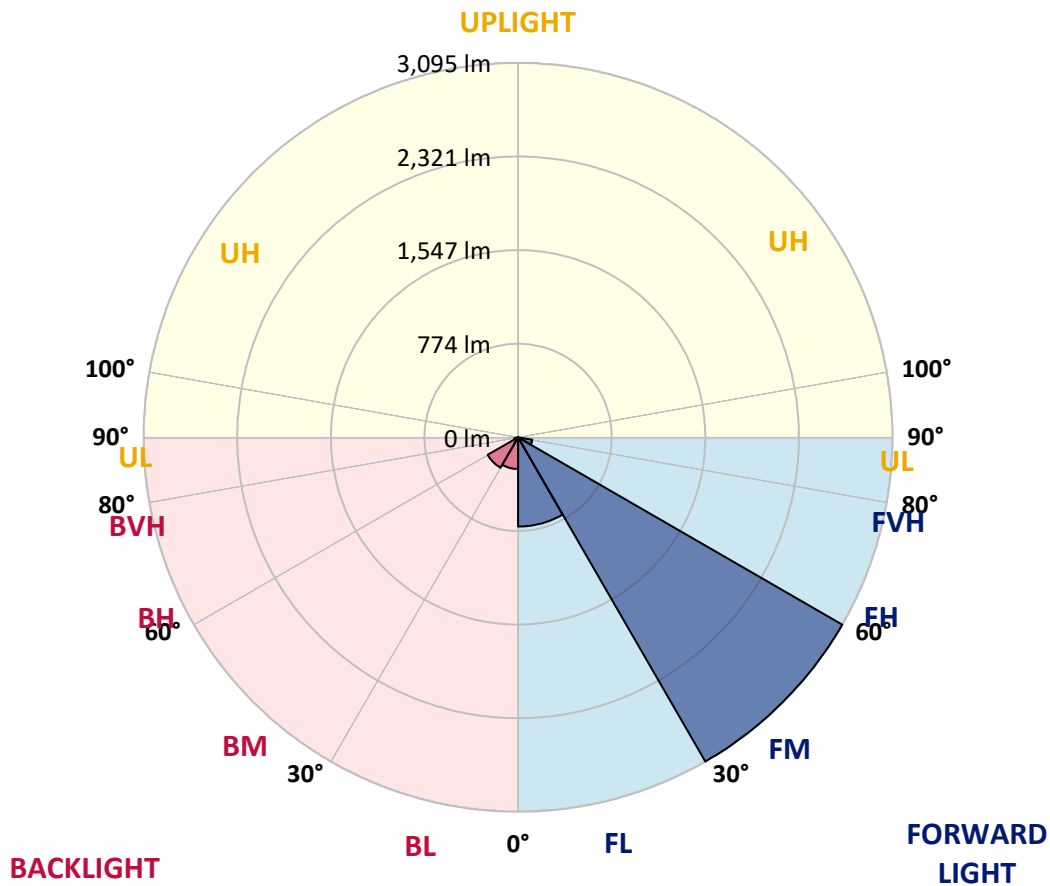
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.2	16.3			
FM (30°-60°)	3094.7	68.3			
FH (60°-80°)	118.7	2.6			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	261.4	5.8	B1/500		
BM (30°-60°)	289.7	6.4	B1/1000		
BH (60°-80°)	30.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	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°	50°	55°	65°	75°	85°
0°	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5
2.5°	1565.1	1577.6	1574.2	1557.8	1540.1	1527.6	1508.1	1502.1	1458.1	1427.4	1395.1
5°	1754.1	1758.0	1753.7	1733.8	1702.7	1673.0	1641.0	1622.5	1548.7	1482.2	1414.5
7.5°	1799.4	1794.7	1802.9	1812.8	1808.5	1795.5	1761.9	1741.6	1653.6	1545.2	1442.5
10°	1657.9	1647.1	1677.7	1729.1	1783.0	1843.8	1835.2	1836.9	1755.8	1624.6	1479.2
12.5°	1470.2	1465.8	1488.7	1548.3	1654.0	1792.1	1825.3	1881.0	1849.5	1710.5	1521.1
15°	1387.7	1389.9	1403.7	1441.2	1517.2	1688.9	1768.8	1869.3	1933.2	1793.8	1567.2
17.5°	1400.3	1408.0	1407.6	1420.1	1466.3	1603.9	1697.1	1832.6	1997.9	1889.6	1620.3
20°	1485.3	1493.0	1481.4	1471.9	1487.4	1582.4	1659.6	1795.5	2041.5	1986.2	1676.4
22.5°	1612.6	1621.6	1594.0	1566.8	1556.9	1617.7	1673.8	1780.4	2074.7	2074.7	1726.5
25°	1766.6	1779.1	1736.4	1688.1	1660.5	1692.4	1734.7	1814.5	2108.8	2154.1	1760.6
27.5°	1938.8	1939.2	1902.5	1848.2	1796.4	1800.3	1825.7	1891.3	2146.3	2239.5	1787.3
30°	2132.5	2133.8	2085.1	2019.9	1954.7	1937.1	1958.6	2008.3	2224.4	2347.0	1824.4
32.5°	2382.8	2388.8	2318.9	2223.1	2138.6	2105.3	2117.9	2170.1	2348.7	2481.6	1880.1
35°	2721.1	2727.6	2624.5	2498.0	2363.4	2313.3	2325.8	2378.5	2528.7	2672.8	1969.0
37.5°	3055.1	3063.7	2959.3	2841.5	2656.8	2574.0	2586.9	2637.0	2798.8	2936.9	2111.4
40°	3286.0	3297.6	3265.2	3185.8	3014.5	2905.8	2921.3	2939.5	3096.1	3252.7	2296.1
42.5°	3407.6	3424.0	3437.9	3478.4	3388.2	3297.2	3270.9	3272.2	3398.6	3574.6	2488.1
45°	3415.0	3430.9	3501.7	3658.4	3727.0	3708.0	3660.1	3627.7	3629.4	3789.1	2608.1
47.5°	3177.6	3207.4	3339.9	3646.7	3904.7	4062.2	4038.1	3961.3	3726.5	3803.3	2595.1
50°	2615.4	2644.7	2885.5	3327.0	3775.3	4203.8	4303.5	4200.3	3663.1	3626.0	2461.8
52.5°	1899.5	1902.5	2058.7	2574.4	3250.6	3942.7	4177.5	4167.5	3566.4	3411.1	2279.7
55°	902.3	891.5	1067.1	1452.9	2248.2	3188.9	3584.6	3696.8	3429.2	3255.8	2138.6
57.5°	262.8	268.0	346.1	567.0	1124.5	2038.0	2454.9	2663.7	2814.7	2676.7	1658.7
60°	117.8	118.2	131.6	172.6	374.6	948.0	1269.1	1527.6	1682.9	1559.5	822.9
62.5°	85.4	85.9	91.0	97.5	127.3	321.0	476.0	634.3	646.0	422.9	208.4
65°	71.2	71.2	72.1	72.1	76.4	114.8	144.6	186.4	157.1	116.5	81.6
67.5°	57.4	57.8	58.7	58.7	57.4	57.4	62.1	68.2	72.9	90.2	75.1
70°	44.9	44.4	44.4	44.9	43.6	37.1	40.1	45.7	50.1	70.3	65.2
72.5°	35.0	35.4	35.0	33.2	30.2	22.0	23.7	29.8	31.9	44.0	44.0
75°	26.3	26.8	25.0	19.0	12.5	6.9	9.1	14.7	18.6	21.6	16.0
77.5°	3.5	3.5	2.6	2.6	2.2	2.6	2.6	3.5	5.2	5.2	3.9
80°	0.4	0.4	0.4	0.9	1.3	1.7	1.7	1.7	1.7	2.2	2.2
82.5°	0.4	0.4	0.4	0.4	1.3	1.3	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.4	0.9	1.3	1.3	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.4	0.9	1.3	1.3	1.3	1.7	1.7	1.7
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°	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5	1373.5
2.5°	1375.7	1350.6	1320.4	1299.7	1270.4	1251.0	1223.3	1204.8	1188.8	1176.3	1183.2
5°	1376.1	1336.4	1274.7	1222.0	1164.6	1112.0	1055.5	1011.0	970.9	952.8	962.7
7.5°	1384.7	1327.8	1233.3	1139.6	1029.6	920.8	819.0	736.2	695.2	675.7	681.8
10°	1401.5	1323.9	1187.1	1031.7	853.1	704.7	605.8	549.7	526.9	514.8	517.0
12.5°	1417.1	1321.3	1127.1	889.8	673.2	546.7	495.4	487.6	492.4	492.8	492.4
15°	1438.2	1316.5	1052.9	743.9	538.5	472.5	473.8	485.0	496.2	499.7	498.8
17.5°	1460.7	1309.2	957.1	604.1	457.0	450.9	466.0	481.1	492.4	494.1	494.5
20°	1484.0	1294.1	847.9	493.2	419.0	434.5	451.4	462.6	470.8	473.4	474.2
22.5°	1494.8	1262.2	721.9	413.8	393.5	414.3	426.8	441.4	444.0	434.5	436.3
25°	1489.1	1208.2	598.9	360.3	368.1	388.8	407.3	400.0	389.2	382.3	384.5
27.5°	1471.5	1136.6	478.5	321.0	340.9	367.2	369.4	361.2	359.4	353.8	355.6
30°	1452.5	1054.2	384.9	289.5	313.3	340.9	334.4	337.4	337.9	331.4	333.6
32.5°	1440.8	967.9	306.4	268.4	295.6	300.8	313.7	319.7	320.2	305.1	307.7
35°	1444.7	882.9	259.3	251.1	279.2	277.9	296.0	299.5	274.4	253.7	255.9
37.5°	1476.2	804.3	232.6	237.8	250.7	260.6	274.4	251.6	246.0	236.5	237.8
40°	1534.9	737.5	216.6	229.6	231.3	247.3	226.1	229.1	229.6	223.5	224.8
42.5°	1603.5	681.8	207.1	224.8	220.5	223.1	201.9	208.0	214.5	211.9	212.3
45°	1638.0	627.4	198.9	208.4	209.7	185.1	180.4	186.8	195.0	196.3	196.8
47.5°	1607.4	575.6	190.3	184.7	193.3	168.7	163.1	165.3	174.8	179.9	180.8
50°	1513.7	516.1	177.4	163.5	158.8	151.5	146.3	146.7	157.5	166.6	168.3
52.5°	1382.1	453.9	156.2	138.5	127.7	133.3	134.6	132.0	142.0	151.0	152.8
55°	1254.4	376.3	123.8	112.6	102.7	114.8	118.2	114.8	117.8	123.8	124.3
57.5°	883.3	212.7	94.9	93.2	85.0	98.4	104.0	98.8	93.6	97.5	98.4
60°	409.5	111.3	72.9	72.9	70.8	84.6	94.1	86.7	76.8	78.5	79.8
62.5°	128.2	70.3	53.5	50.5	57.8	72.1	79.8	72.5	60.8	60.8	62.6
65°	72.5	60.4	42.3	38.8	47.0	57.8	62.6	54.8	44.4	43.6	43.6
67.5°	67.3	57.4	37.5	31.5	33.2	37.1	38.8	33.7	30.6	30.2	30.6
70°	55.7	47.9	30.2	21.6	20.3	19.8	20.7	19.4	18.6	19.0	20.3
72.5°	34.5	28.9	19.0	12.9	11.2	10.8	10.8	10.8	10.4	10.4	10.4
75°	12.5	10.8	8.6	6.5	5.6	5.2	5.2	5.6	5.2	4.7	4.3
77.5°	3.9	3.5	3.5	3.5	3.0	2.6	2.2	2.2	1.7	1.3	1.3
80°	2.2	2.2	2.2	2.2	1.7	1.7	1.3	0.9	0.4	0.4	0.0
82.5°	2.2	2.2	2.2	1.7	1.7	1.7	1.3	0.9	0.4	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.3	0.9	0.4	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.3	0.9	0.4	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)