

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: P630267

Luminaire Tested: GWS-SA1D-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630267
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-SA1D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4504.3 lumens
Efficiency: N/A
Efficacy: 101.7 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

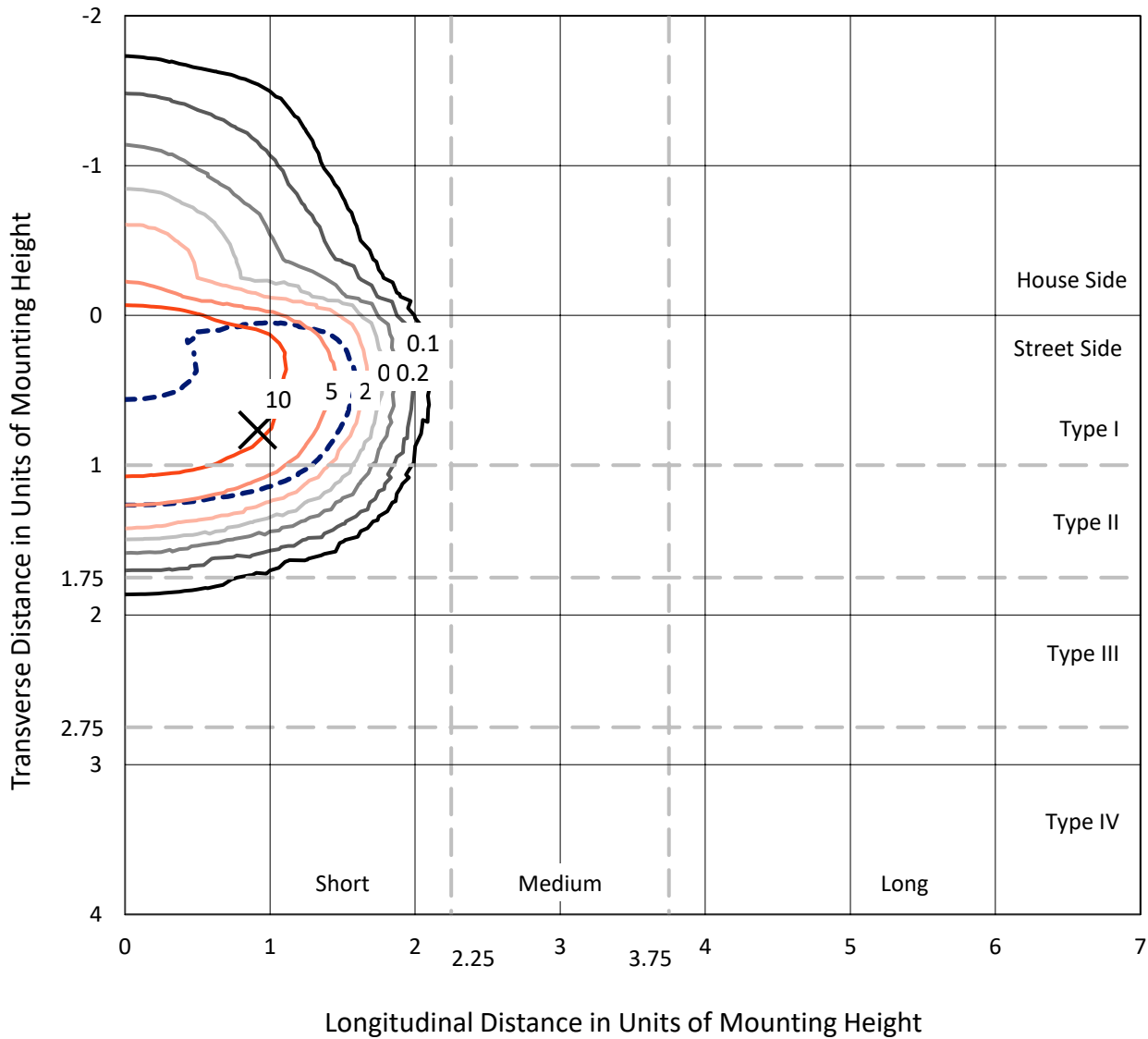
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

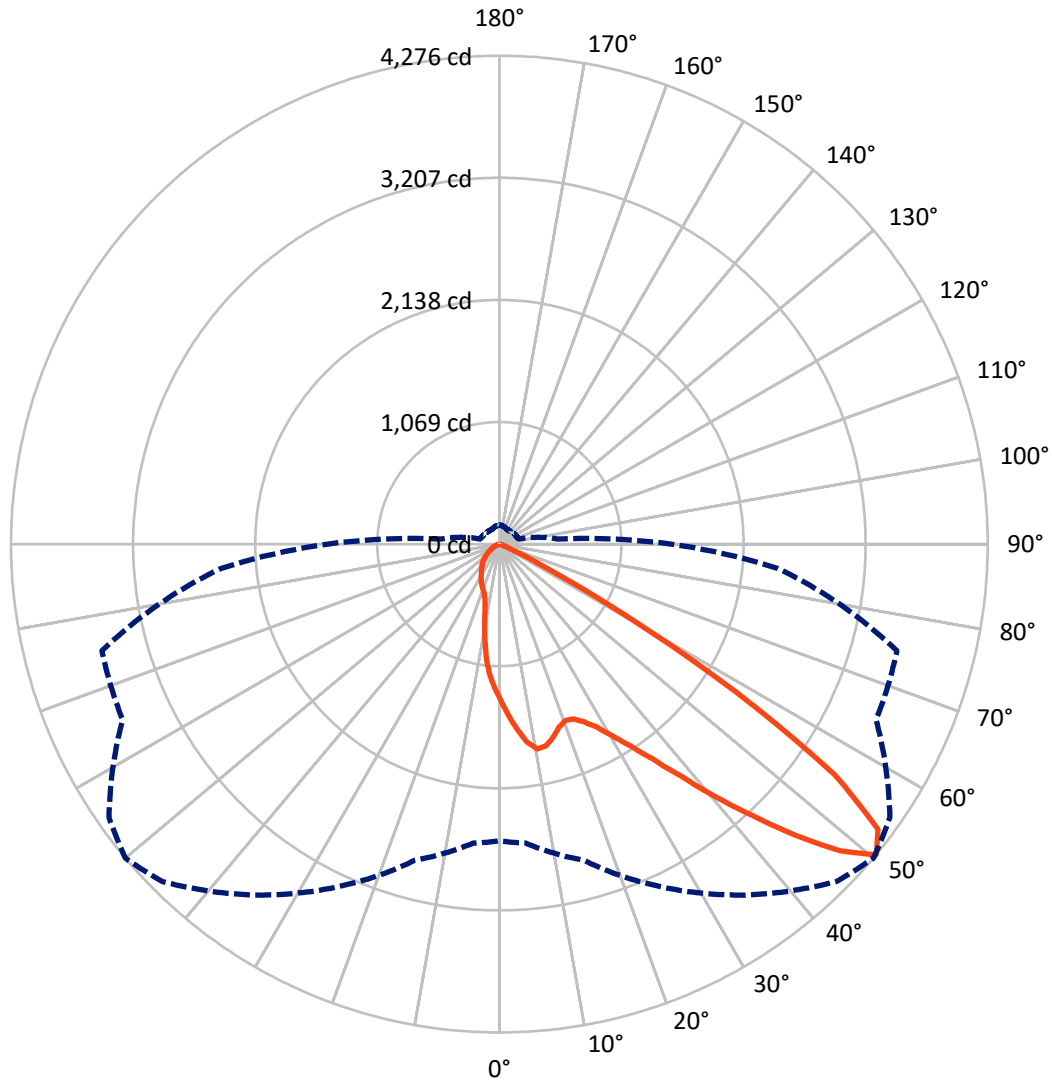
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 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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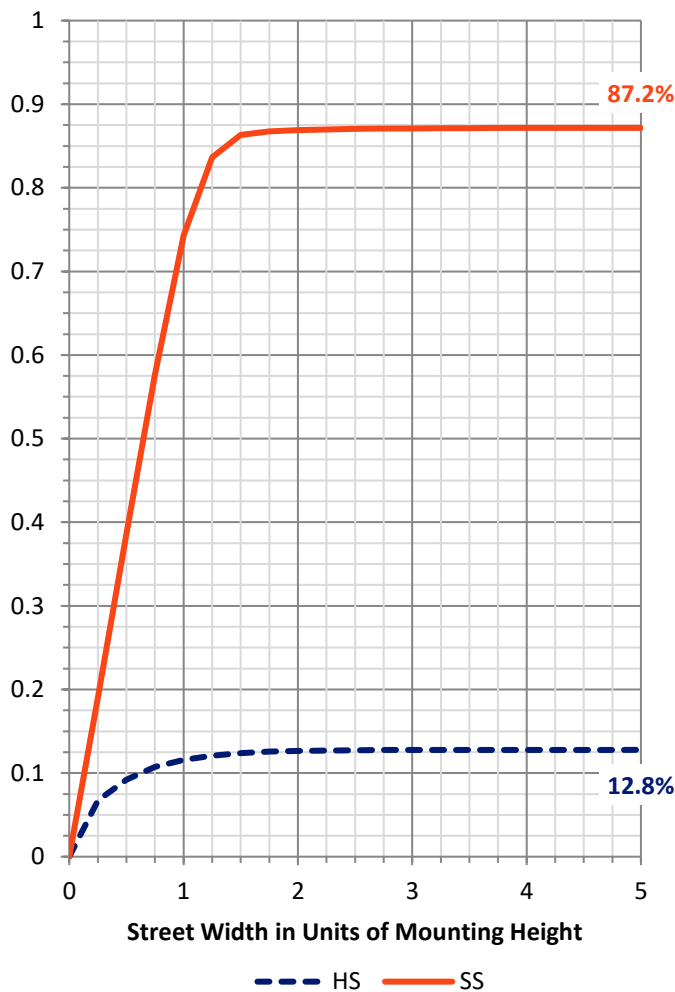
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.7	0.0	578.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3925.6	0.0	3925.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	4504.3	0.0	4504.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	2.8
10°-20°	326.6	7.3
20°-30°	539.0	12.0
30°-40°	889.5	19.7
40°-50°	1407.4	31.2
50°-60°	1065.6	23.7
60°-70°	133.4	3.0
70°-80°	15.1	0.3
80°-90°	1.1	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°	4504.3	100.0
0°-180°	4504.3	100.0

Coefficient of Utilization



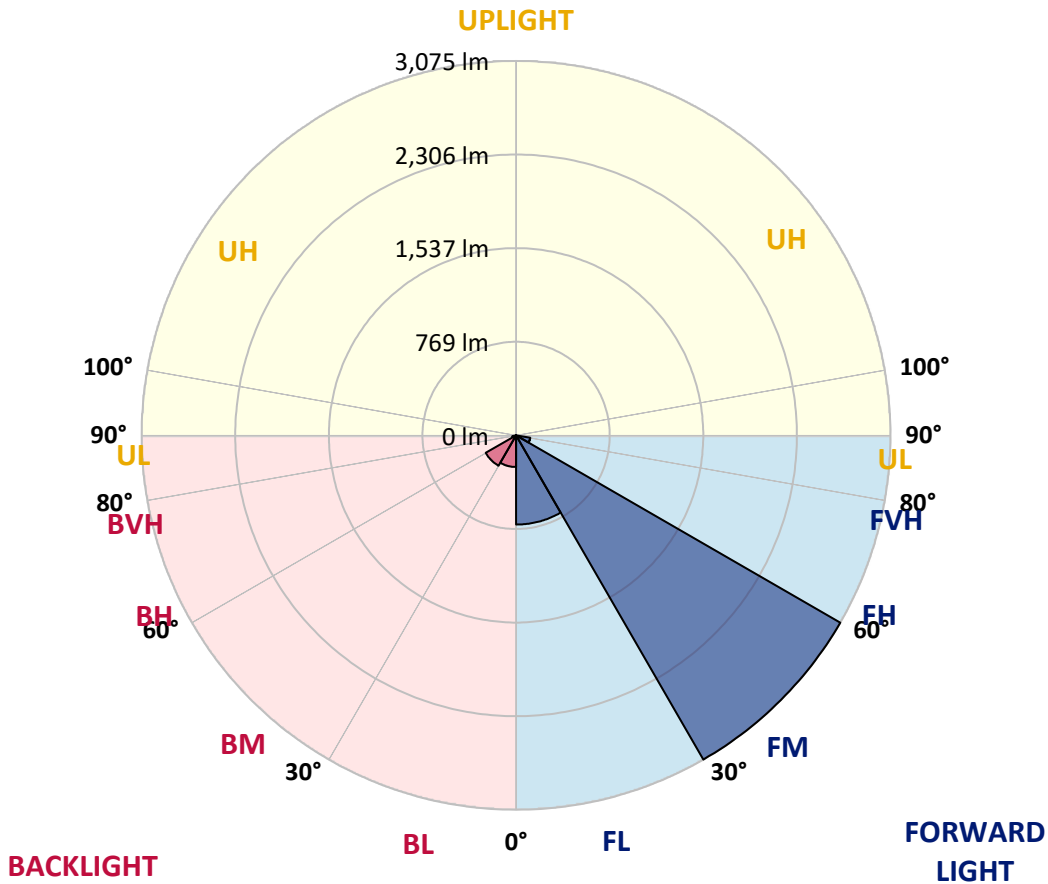
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.5	16.3			
FM (30°-60°)	3074.7	68.3			
FH (60°-80°)	117.9	2.6			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	259.8	5.8	B1/500		
BM (30°-60°)	287.8	6.4	B1/1000		
BH (60°-80°)	30.5	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°	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6
2.5°	1555.0	1567.4	1564.0	1547.7	1530.1	1517.7	1498.4	1492.4	1448.7	1418.2	1386.1
5°	1742.8	1746.6	1742.3	1722.6	1691.7	1662.2	1630.4	1612.0	1538.7	1472.7	1405.4
7.5°	1787.8	1783.1	1791.2	1801.1	1796.8	1783.9	1750.5	1730.3	1642.9	1535.3	1433.2
10°	1647.2	1636.4	1666.9	1717.9	1771.5	1831.9	1823.4	1825.1	1744.5	1614.1	1469.7
12.5°	1460.7	1456.4	1479.1	1538.3	1643.3	1780.5	1813.5	1868.8	1837.5	1699.5	1511.2
15°	1378.8	1380.9	1394.6	1431.9	1507.4	1678.0	1757.3	1857.2	1920.7	1782.2	1557.1
17.5°	1391.2	1398.9	1398.5	1410.9	1456.8	1593.6	1686.2	1820.8	1985.0	1877.4	1609.9
20°	1475.7	1483.4	1471.8	1462.4	1477.8	1572.1	1648.9	1783.9	2028.3	1973.4	1665.6
22.5°	1602.1	1611.1	1583.7	1556.7	1546.8	1607.3	1663.0	1768.9	2061.3	2061.3	1715.3
25°	1755.2	1767.6	1725.2	1677.2	1649.7	1681.4	1723.5	1802.8	2095.2	2140.2	1749.2
27.5°	1926.3	1926.7	1890.2	1836.2	1784.8	1788.6	1813.9	1879.1	2132.5	2225.1	1775.8
30°	2118.7	2120.0	2071.6	2006.9	1942.1	1924.5	1946.0	1995.3	2210.1	2331.8	1812.6
32.5°	2367.4	2373.4	2304.0	2208.8	2124.7	2091.7	2104.2	2156.0	2333.5	2465.6	1867.9
35°	2703.5	2710.0	2607.5	2481.9	2348.1	2298.4	2310.8	2363.1	2512.3	2655.5	1956.3
37.5°	3035.4	3043.9	2940.2	2823.1	2639.6	2557.3	2570.2	2619.9	2780.7	2917.9	2097.7
40°	3264.7	3276.3	3244.1	3165.3	2995.1	2887.0	2902.5	2920.5	3076.1	3231.7	2281.2
42.5°	3385.6	3401.9	3415.6	3455.9	3366.3	3275.9	3249.7	3251.0	3376.6	3551.5	2472.0
45°	3392.9	3408.8	3479.1	3634.7	3702.9	3684.0	3636.4	3604.3	3606.0	3764.6	2591.2
47.5°	3157.1	3186.7	3318.3	3623.1	3879.5	4036.0	4012.0	3935.7	3702.4	3778.8	2578.3
50°	2598.5	2627.6	2866.9	3305.5	3750.9	4176.6	4275.6	4173.2	3639.4	3602.6	2445.9
52.5°	1887.2	1890.2	2045.4	2557.8	3229.6	3917.2	4150.5	4140.6	3543.4	3389.1	2264.9
55°	896.5	885.7	1060.2	1443.5	2233.6	3168.3	3561.4	3672.9	3407.1	3234.7	2124.7
57.5°	261.1	266.2	343.8	563.3	1117.3	2024.9	2439.0	2646.5	2796.6	2659.4	1648.0
60°	117.0	117.5	130.8	171.5	372.1	941.9	1260.9	1517.7	1672.0	1549.4	817.6
62.5°	84.9	85.3	90.5	96.9	126.5	319.0	472.9	630.2	641.8	420.1	207.1
65°	70.7	70.7	71.6	71.6	75.9	114.0	143.6	185.2	156.1	115.8	81.0
67.5°	57.0	57.4	58.3	58.3	57.0	57.0	61.7	67.7	72.5	89.6	74.6
70°	44.6	44.2	44.2	44.6	43.3	36.9	39.9	45.4	49.7	69.9	64.7
72.5°	34.7	35.2	34.7	33.0	30.0	21.9	23.6	29.6	31.7	43.7	43.7
75°	26.2	26.6	24.9	18.9	12.4	6.9	9.0	14.6	18.4	21.4	15.9
77.5°	3.4	3.4	2.6	2.6	2.1	2.6	2.6	3.4	5.1	5.1	3.9
80°	0.4	0.4	0.4	0.9	1.3	1.7	1.7	1.7	1.7	2.1	2.1
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°	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6	1364.6
2.5°	1366.8	1341.9	1311.9	1291.3	1262.2	1242.9	1215.4	1197.0	1181.1	1168.7	1175.6
5°	1367.2	1327.8	1266.4	1214.1	1157.1	1104.8	1048.7	1004.5	964.6	946.6	956.5
7.5°	1375.8	1319.2	1225.3	1132.3	1022.9	914.9	813.7	731.4	690.7	671.4	677.4
10°	1392.5	1315.3	1179.4	1025.1	847.6	700.1	601.9	546.2	523.5	511.5	513.6
12.5°	1407.9	1312.7	1119.8	884.0	668.8	543.2	492.2	484.5	489.2	489.6	489.2
15°	1428.9	1308.0	1046.1	739.1	535.0	469.5	470.7	481.9	493.0	496.5	495.6
17.5°	1451.2	1300.7	950.9	600.2	454.0	448.0	463.0	478.0	489.2	490.9	491.3
20°	1474.4	1285.7	842.4	490.0	416.3	431.7	448.4	459.6	467.7	470.3	471.2
22.5°	1485.1	1254.0	717.3	411.1	391.0	411.6	424.0	438.6	441.2	431.7	433.4
25°	1479.5	1200.4	595.1	358.0	365.7	386.3	404.7	397.4	386.7	379.8	382.0
27.5°	1461.9	1129.3	475.5	319.0	338.7	364.8	367.0	358.8	357.1	351.6	353.3
30°	1443.1	1047.4	382.4	287.7	311.3	338.7	332.3	335.3	335.7	329.3	331.4
32.5°	1431.5	961.6	304.4	266.7	293.7	298.8	311.7	317.7	318.1	303.1	305.7
35°	1435.4	877.2	257.7	249.5	277.4	276.1	294.1	297.5	272.7	252.1	254.2
37.5°	1466.7	799.1	231.1	236.2	249.1	258.9	272.7	249.9	244.4	234.9	236.2
40°	1525.0	732.7	215.2	228.1	229.8	245.7	224.7	227.7	228.1	222.1	223.4
42.5°	1593.1	677.4	205.8	223.4	219.1	221.6	200.6	206.6	213.1	210.5	210.9
45°	1627.4	623.4	197.6	207.1	208.4	183.9	179.2	185.6	193.8	195.1	195.5
47.5°	1597.0	571.9	189.1	183.5	192.1	167.6	162.1	164.2	173.6	178.8	179.6
50°	1504.0	512.8	176.2	162.5	157.8	150.5	145.3	145.8	156.5	165.5	167.2
52.5°	1373.2	451.0	155.2	137.6	126.9	132.5	133.8	131.2	141.0	150.1	151.8
55°	1246.3	373.8	123.0	111.9	102.0	114.0	117.5	114.0	117.0	123.0	123.5
57.5°	877.6	211.4	94.3	92.6	84.5	97.7	103.3	98.2	93.0	96.9	97.7
60°	406.9	110.6	72.5	72.5	70.3	84.0	93.5	86.2	76.3	78.0	79.3
62.5°	127.3	69.9	53.2	50.2	57.4	71.6	79.3	72.0	60.4	60.4	62.2
65°	72.0	60.0	42.0	38.6	46.7	57.4	62.2	54.4	44.2	43.3	43.3
67.5°	66.9	57.0	37.3	31.3	33.0	36.9	38.6	33.4	30.4	30.0	30.4
70°	55.3	47.6	30.0	21.4	20.1	19.7	20.6	19.3	18.4	18.9	20.1
72.5°	34.3	28.7	18.9	12.9	11.1	10.7	10.7	10.7	10.3	10.3	10.3
75°	12.4	10.7	8.6	6.4	5.6	5.1	5.1	5.6	5.1	4.7	4.3
77.5°	3.9	3.4	3.4	3.4	3.0	2.6	2.1	2.1	1.7	1.3	1.3
80°	2.1	2.1	2.1	2.1	1.7	1.7	1.3	0.9	0.4	0.4	0.0
82.5°	2.1	2.1	2.1	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)