

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: P630545

Luminaire Tested: GWS-SA1D-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630545
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-SA1D-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4905.2 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

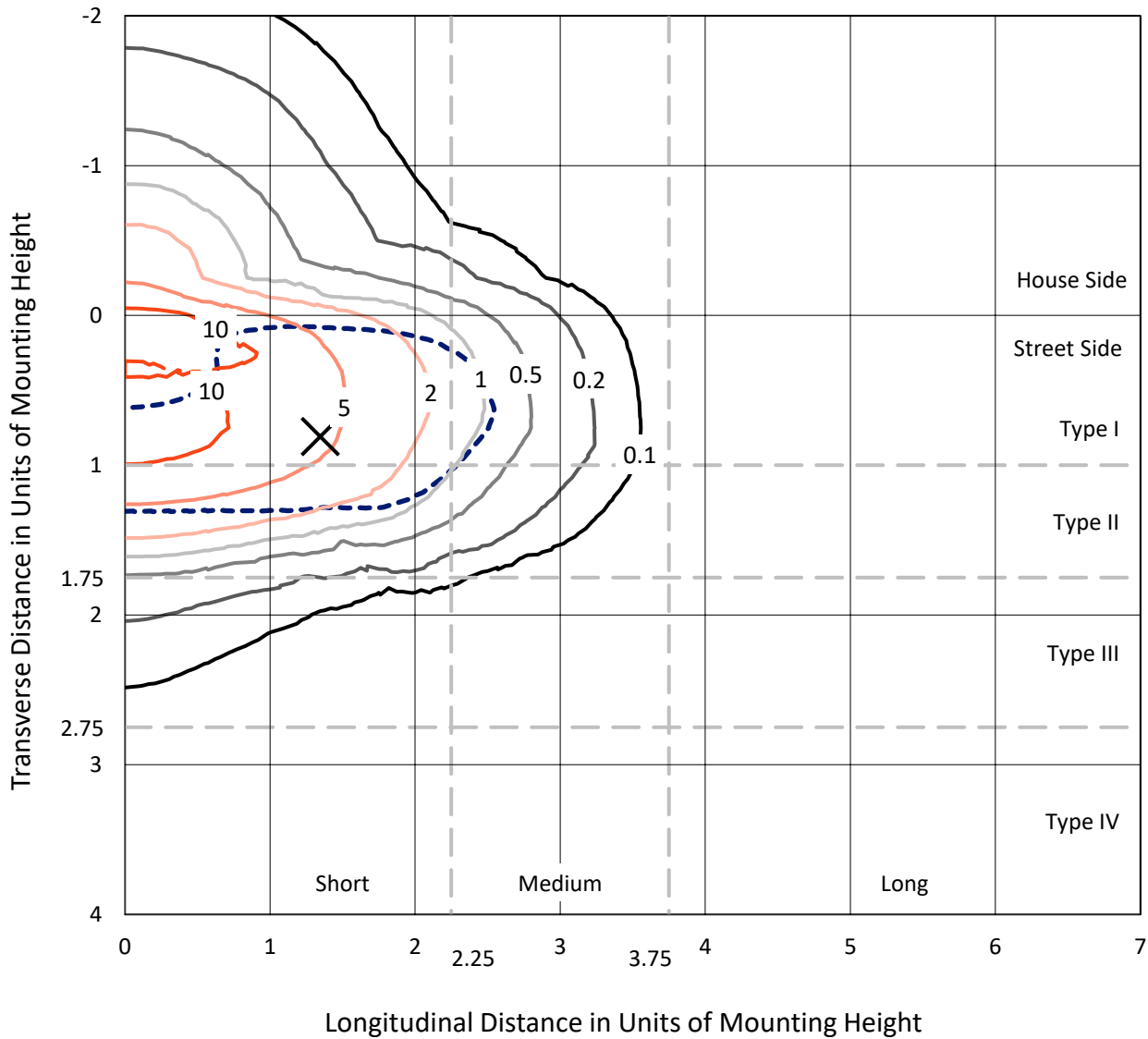
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

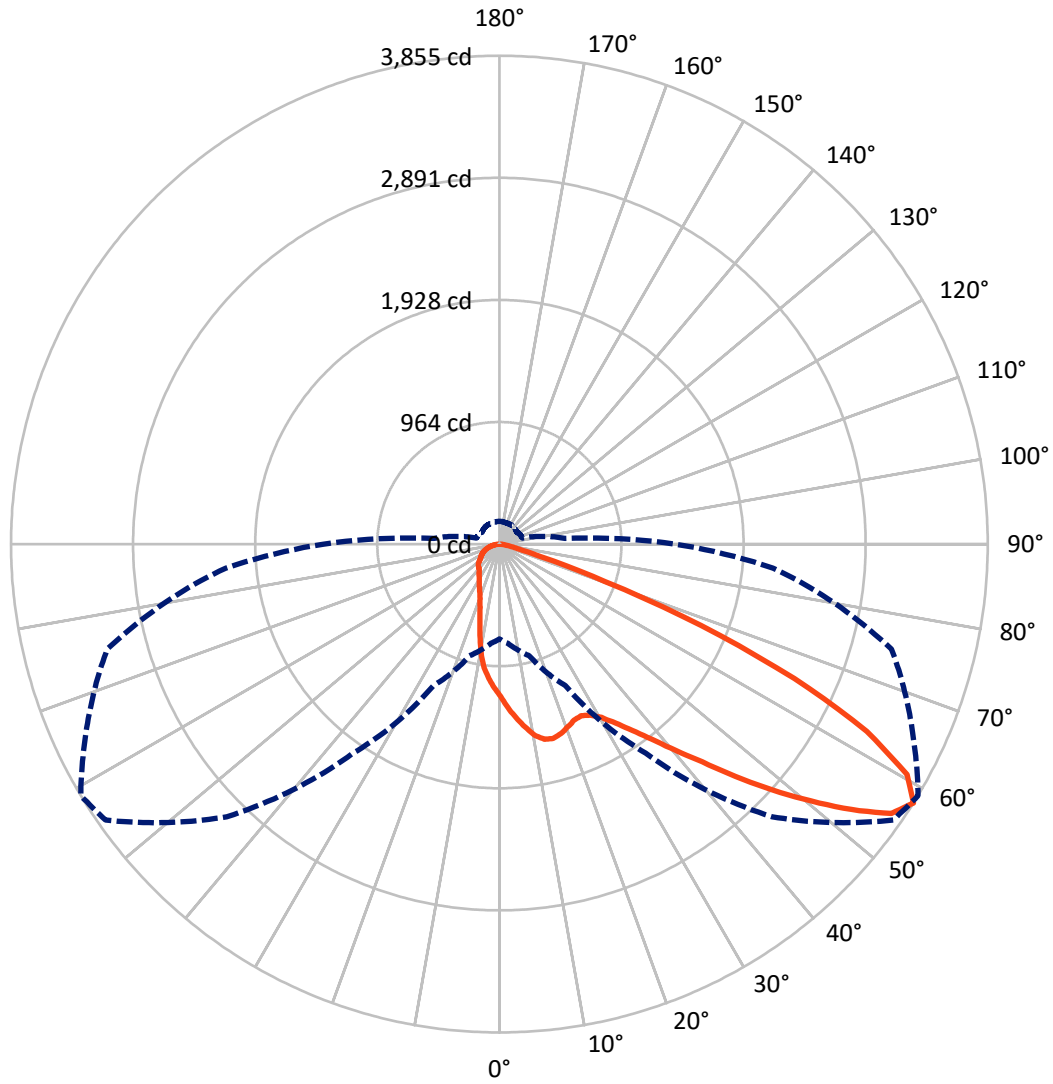
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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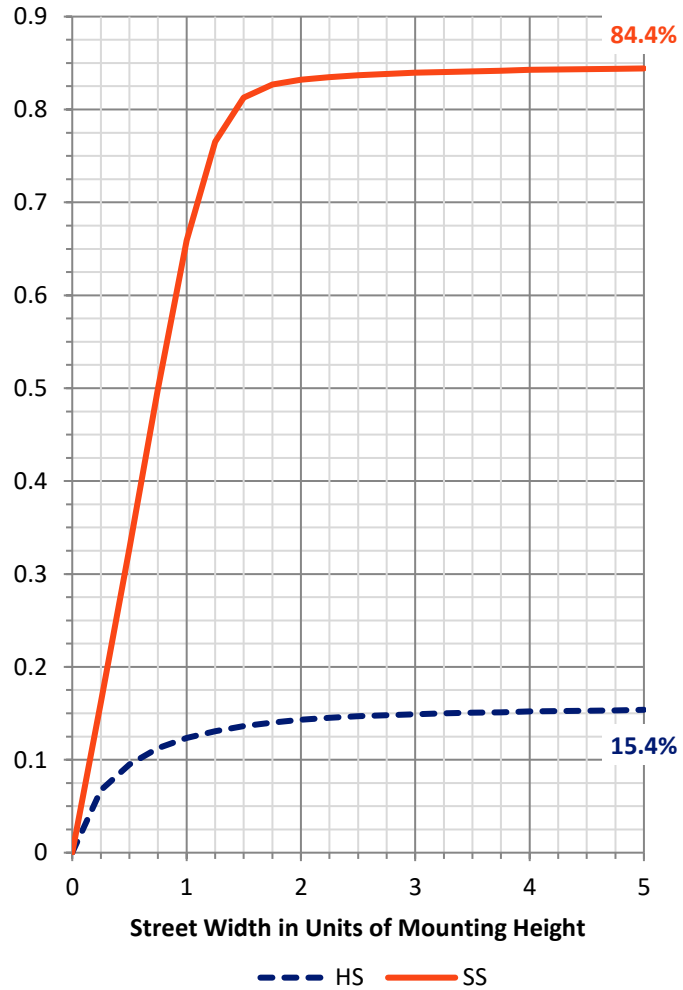
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	761.3	0.0	761.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4143.9	0.0	4143.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	4905.2	0.0	4905.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	2.3
10°-20°	283.3	5.8
20°-30°	459.3	9.4
30°-40°	738.8	15.1
40°-50°	1147.2	23.4
50°-60°	1235.7	25.2
60°-70°	717.2	14.6
70°-80°	187.2	3.8
80°-90°	24.7	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°	4905.2	100.0
0°-180°	4905.2	100.0

Coefficient of Utilization



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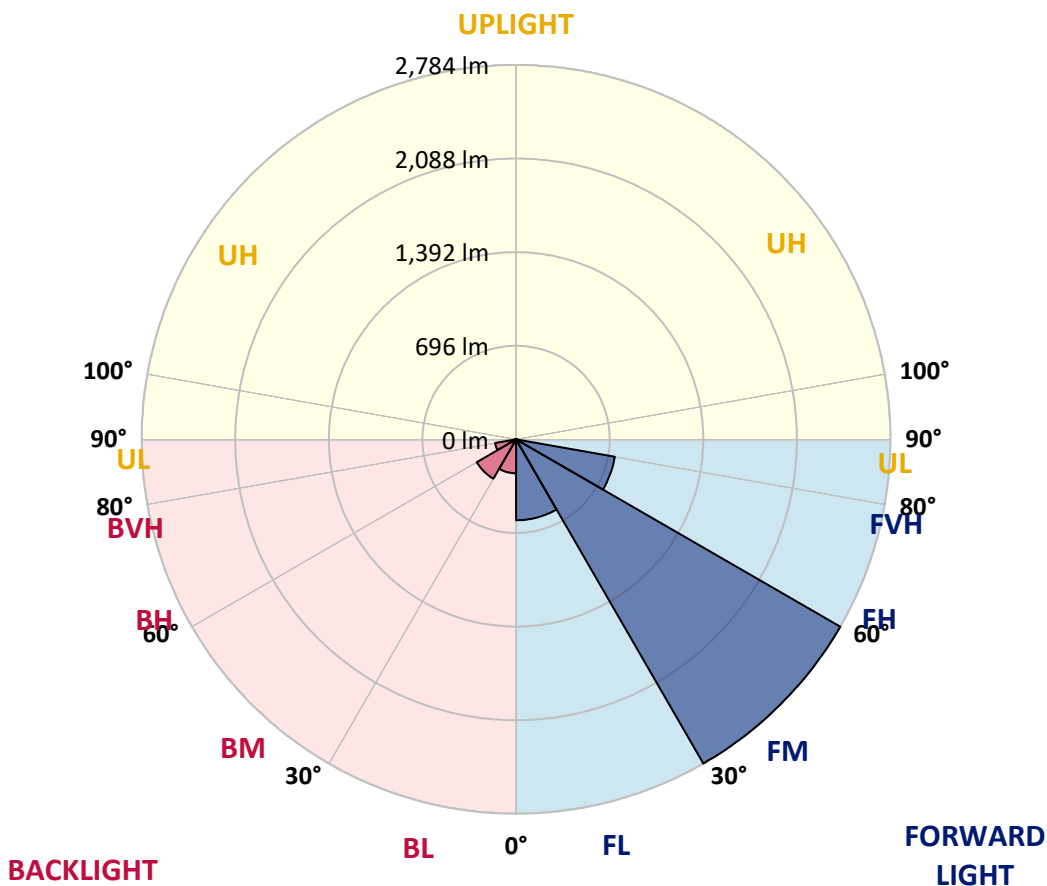
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.8	12.3			
FM (30°-60°)	2784.2	56.8			
FH (60°-80°)	746.1	15.2			G1/1800
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	252.6	5.1	B1/500		
BM (30°-60°)	337.5	6.9	B1/1000		
BH (60°-80°)	158.3	3.2	B1/500		G1/500
BVH (80°-90°)	12.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1365.7	1354.3	1362.3	1348.1	1342.3	1326.7	1306.7	1293.2	1272.5	1245.6	1222.1
5°	1501.4	1493.5	1495.2	1480.0	1466.6	1440.7	1399.6	1376.8	1341.6	1287.4	1236.9
7.5°	1497.3	1506.6	1511.8	1524.9	1528.7	1526.3	1489.4	1457.6	1418.9	1337.4	1261.5
10°	1342.3	1359.9	1375.8	1420.6	1475.2	1544.3	1552.9	1533.9	1494.9	1401.3	1290.8
12.5°	1173.4	1186.9	1201.0	1254.9	1338.5	1476.6	1570.2	1581.9	1566.4	1464.5	1324.0
15°	1090.5	1096.7	1110.2	1145.8	1212.4	1365.7	1540.1	1591.6	1619.5	1531.5	1361.2
17.5°	1087.1	1089.8	1096.4	1115.4	1161.7	1280.1	1485.9	1572.2	1661.3	1602.3	1404.8
20°	1158.5	1151.3	1147.2	1146.8	1169.6	1251.4	1433.4	1541.2	1681.0	1674.8	1451.4
22.5°	1257.7	1260.1	1251.1	1229.0	1226.2	1271.8	1407.2	1509.7	1686.9	1739.0	1494.5
25°	1398.2	1410.3	1383.7	1341.6	1320.8	1330.9	1423.4	1500.1	1686.2	1792.6	1521.5
27.5°	1562.2	1571.5	1544.6	1489.4	1446.5	1422.4	1471.8	1528.7	1692.1	1838.8	1537.7
30°	1749.0	1752.2	1715.2	1657.2	1594.7	1542.9	1552.2	1587.8	1722.1	1899.6	1556.7
32.5°	1977.3	1990.4	1934.5	1842.6	1755.3	1689.0	1660.3	1683.1	1787.0	1971.4	1586.1
35°	2267.0	2271.5	2200.4	2068.8	1945.2	1853.3	1793.2	1805.3	1885.8	2071.9	1630.3
37.5°	2540.2	2544.7	2469.0	2346.8	2170.0	2044.3	1957.3	1951.7	2012.2	2213.8	1702.4
40°	2713.5	2726.3	2692.5	2615.8	2446.9	2277.4	2159.3	2140.3	2177.9	2387.5	1802.9
42.5°	2806.8	2812.3	2811.6	2821.6	2721.1	2552.6	2387.2	2349.2	2374.4	2575.0	1904.4
45°	2807.4	2821.3	2858.2	2954.6	2959.0	2854.1	2675.2	2615.8	2592.7	2763.9	2010.4
47.5°	2681.7	2696.6	2798.1	2987.7	3127.6	3151.4	3020.2	2901.0	2803.6	2926.6	2097.5
50°	2301.2	2338.5	2531.9	2867.2	3160.7	3389.7	3349.3	3187.6	2991.2	3052.3	2152.0
52.5°	1970.7	1969.4	2088.5	2526.7	3022.2	3494.6	3667.6	3482.5	3176.6	3132.0	2165.8
55°	1443.1	1451.0	1572.9	1932.4	2652.7	3393.1	3842.7	3754.0	3389.3	3174.5	2160.3
57.5°	748.3	787.7	912.7	1233.1	2015.6	3043.6	3796.1	3855.1	3605.5	3204.6	2167.6
60°	378.1	370.5	415.4	588.8	1167.9	2377.2	3508.8	3697.0	3644.5	3228.0	2172.1
62.5°	252.4	250.4	237.9	272.8	477.2	1407.9	2991.2	3255.0	3373.4	3172.8	2114.7
65°	218.6	214.4	191.7	190.3	231.7	583.9	2192.4	2558.8	2788.1	2927.3	1977.6
67.5°	196.8	190.6	167.5	156.1	166.4	256.6	1235.6	1716.2	2058.8	2475.6	1677.2
70°	175.8	172.7	149.5	132.9	131.9	156.4	455.1	885.7	1259.7	1689.0	1226.2
72.5°	157.5	151.9	132.3	116.4	108.4	110.8	197.5	341.2	652.0	1053.6	733.5
75°	136.4	132.3	115.0	99.1	89.4	81.2	120.5	157.8	297.3	500.7	346.4
77.5°	105.3	102.6	90.8	78.7	73.2	60.4	73.2	99.5	137.4	211.0	180.3
80°	61.1	62.8	67.7	61.5	53.9	43.2	47.7	57.3	82.5	114.3	102.2
82.5°	30.7	32.8	43.9	35.6	32.1	25.2	28.3	33.8	43.2	63.2	40.1
85°	2.4	2.4	7.9	9.0	11.1	9.0	11.4	13.8	19.7	25.2	13.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.7	3.1	5.9	3.8
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°	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1	1204.1
2.5°	1206.2	1188.6	1167.5	1150.3	1123.7	1109.5	1091.6	1069.5	1060.5	1056.3	1053.9
5°	1208.6	1177.5	1132.6	1091.2	1045.3	1009.0	968.6	926.5	902.3	896.4	892.3
7.5°	1217.6	1174.1	1102.6	1034.2	948.9	869.9	792.9	716.5	677.5	662.7	661.3
10°	1230.0	1172.7	1072.2	958.6	814.6	689.6	599.5	539.7	514.5	506.2	503.5
12.5°	1245.6	1171.7	1032.2	853.6	659.6	541.5	490.0	480.3	483.8	483.1	483.1
15°	1265.3	1173.0	983.8	734.8	533.5	470.0	471.0	482.4	493.1	494.8	494.8
17.5°	1286.7	1171.7	913.7	615.7	457.9	453.1	468.9	484.8	494.5	495.9	495.9
20°	1309.8	1165.1	825.3	503.5	424.7	442.4	459.6	472.1	477.9	479.3	479.3
22.5°	1323.6	1146.5	729.3	426.1	403.7	425.4	436.8	449.6	450.3	439.2	438.9
25°	1321.5	1111.6	619.8	376.4	381.2	400.2	414.7	405.8	394.7	388.5	387.4
27.5°	1308.4	1059.1	508.3	338.8	354.6	376.1	371.6	364.0	361.2	354.3	353.6
30°	1291.8	994.5	408.2	309.4	327.0	346.7	339.8	339.1	336.3	328.7	328.7
32.5°	1276.0	927.9	332.5	287.7	309.4	310.8	320.5	321.1	319.8	306.6	305.3
35°	1271.5	861.2	281.4	270.4	292.1	291.4	305.3	304.9	281.1	262.8	262.4
37.5°	1284.9	793.5	251.0	256.2	268.3	277.3	288.3	268.3	260.4	249.3	248.6
40°	1313.6	731.0	235.5	247.9	253.1	266.2	249.0	250.4	248.3	240.0	239.0
42.5°	1351.6	677.9	226.9	245.2	244.5	247.9	228.9	234.5	237.6	231.4	230.3
45°	1388.2	631.6	222.4	234.8	238.3	218.2	214.4	219.6	224.5	222.0	221.0
47.5°	1415.1	591.5	220.0	220.7	230.3	208.2	202.0	204.4	210.3	211.3	211.0
50°	1423.4	557.3	217.2	208.9	206.8	198.2	193.4	192.7	199.6	204.4	205.1
52.5°	1407.5	527.0	210.0	198.6	188.5	189.9	188.2	184.7	191.7	198.2	198.9
55°	1384.0	509.7	198.6	188.5	176.8	182.3	183.0	179.9	184.4	188.9	188.9
57.5°	1385.8	519.7	187.5	179.2	166.4	173.7	177.5	176.1	176.1	179.6	179.9
60°	1397.2	534.2	180.3	167.5	156.1	163.7	172.3	170.9	167.8	172.3	172.3
62.5°	1364.4	514.9	175.4	156.1	145.0	154.0	164.4	163.7	160.2	167.5	168.2
65°	1267.7	463.1	169.9	141.9	134.0	144.3	153.3	155.7	152.6	162.3	164.0
67.5°	1062.5	389.5	159.2	128.5	122.9	132.6	141.2	144.7	142.3	153.7	155.0
70°	792.2	315.3	142.3	113.6	109.5	118.1	126.0	127.4	127.8	141.2	142.6
72.5°	505.2	245.2	119.8	97.0	93.9	100.5	106.4	111.9	114.3	127.1	126.7
75°	281.8	182.3	96.3	82.2	76.7	81.8	88.7	95.3	102.2	120.9	122.9
77.5°	162.3	128.1	76.3	66.0	59.4	64.9	70.8	80.1	100.8	117.1	115.0
80°	91.5	83.2	57.7	48.3	44.2	48.3	52.8	70.4	79.4	86.3	87.4
82.5°	42.8	46.6	39.4	29.7	29.7	32.5	36.6	54.6	60.1	49.0	42.8
85°	15.5	21.1	19.3	15.2	13.5	13.1	22.8	31.1	19.3	17.3	14.8
87.5°	4.1	5.9	5.5	3.8	2.1	1.7	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)