

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: P634041

Luminaire Tested: GWS-SA2F-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7957.9 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

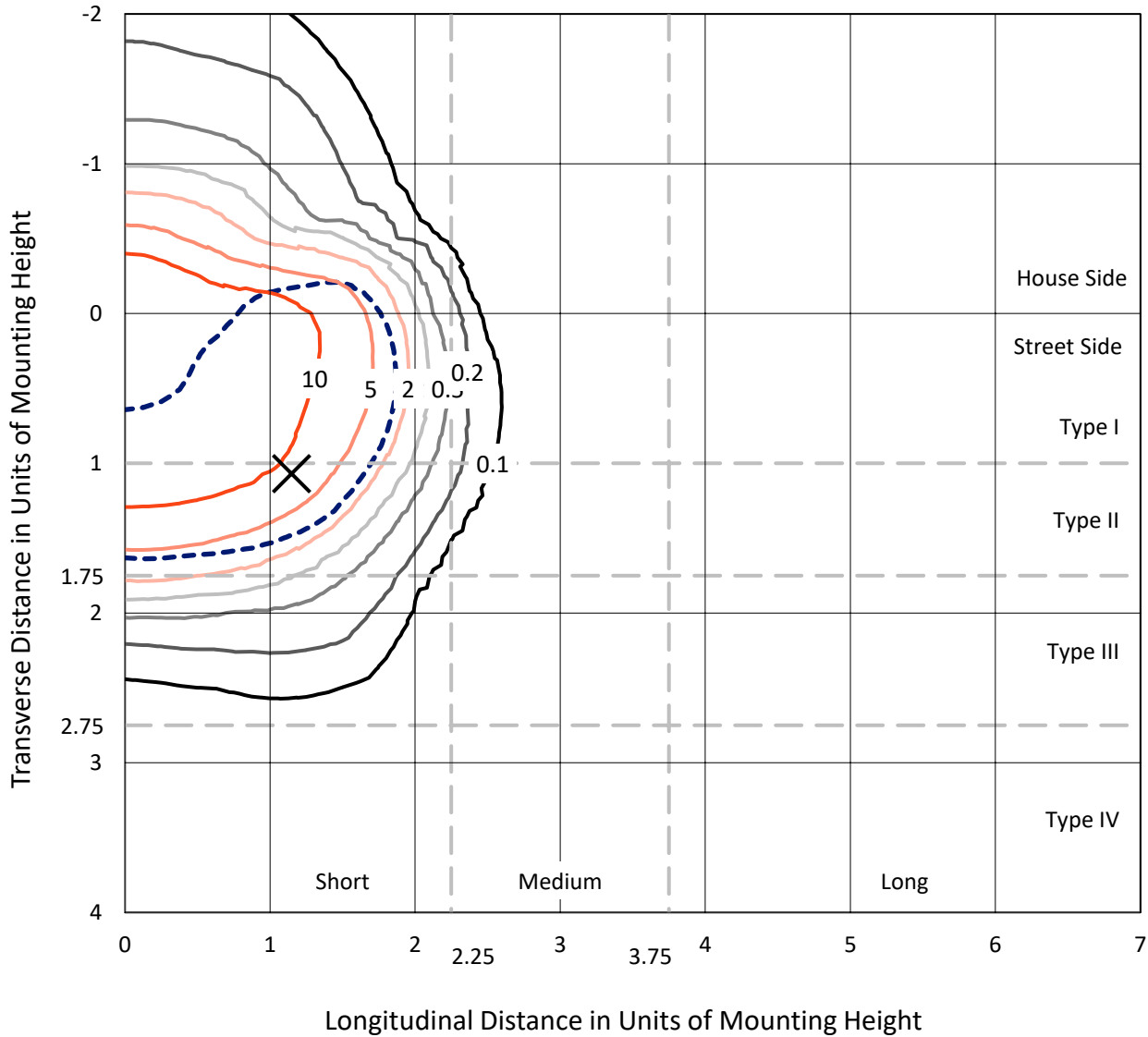
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

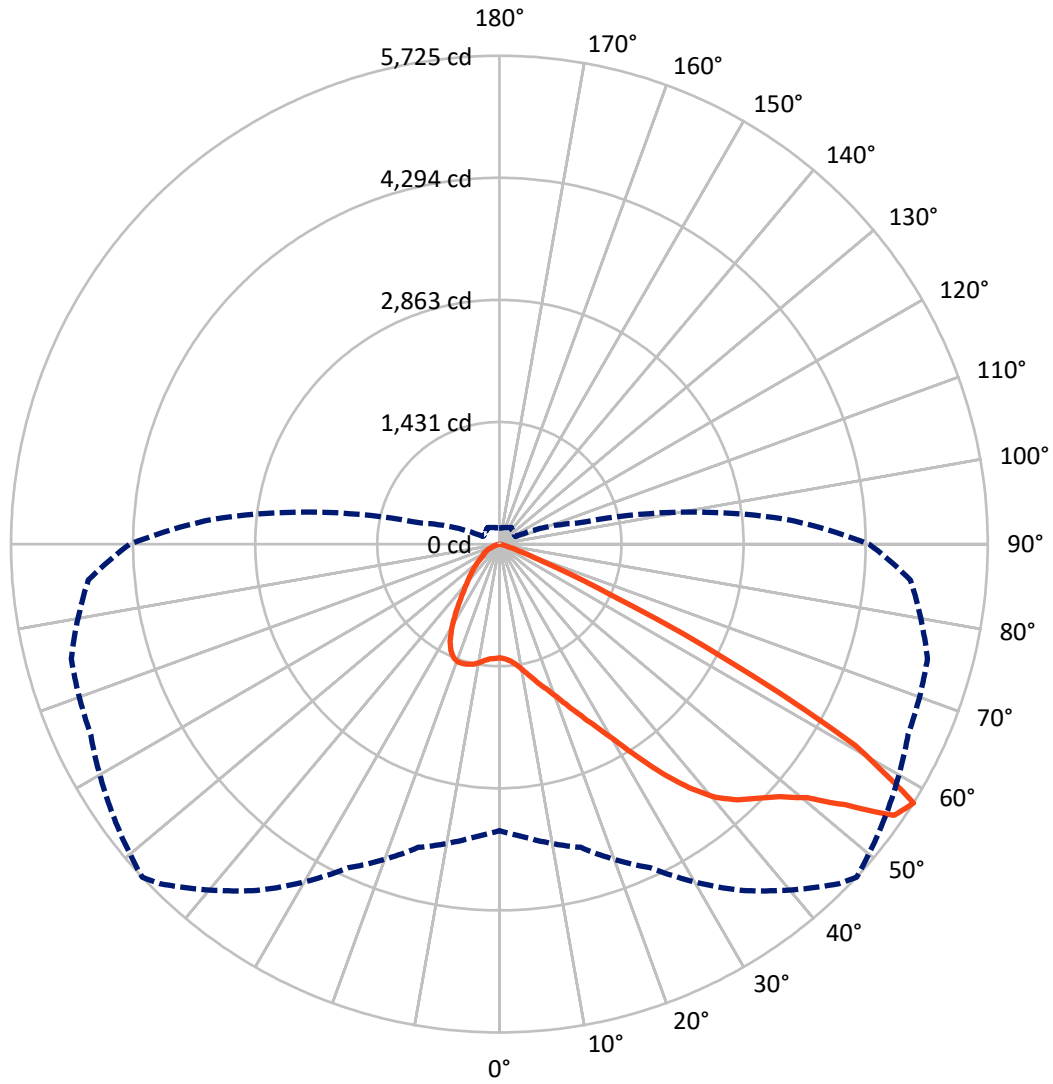
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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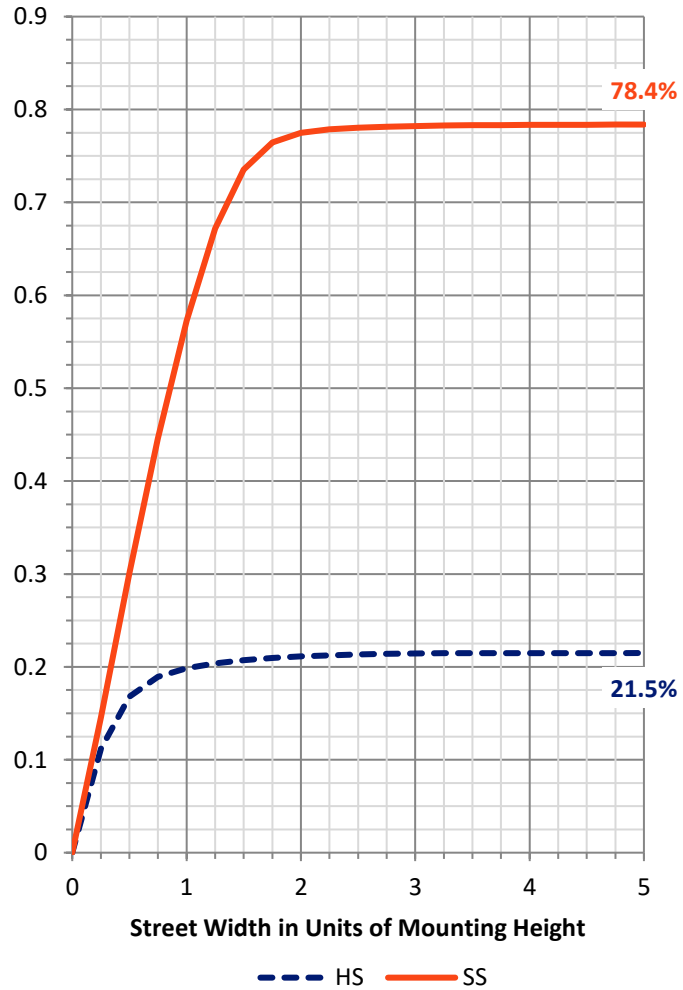
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.4	0.0	1726.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6231.4	0.0	6231.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	7957.9	0.0	7957.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.7
10°-20°	447.2	5.6
20°-30°	830.3	10.4
30°-40°	1329.2	16.7
40°-50°	1943.0	24.4
50°-60°	2398.0	30.1
60°-70°	801.3	10.1
70°-80°	74.7	0.9
80°-90°	1.5	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°	7957.9	100.0
0°-180°	7957.9	100.0

Coefficient of Utilization



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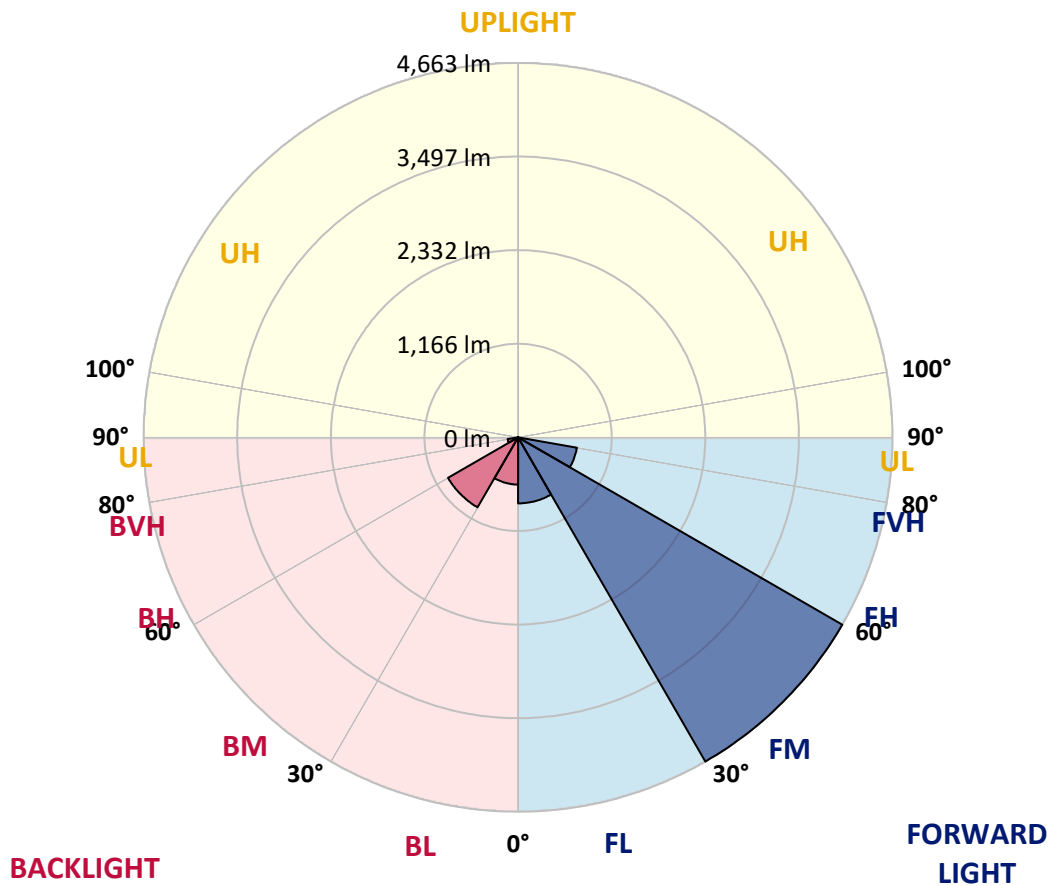
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.4	10.3			
FM (30°-60°)	4663.3	58.6			
FH (60°-80°)	744.7	9.4			G1/1800
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	587.7	7.4	B2/1000		
BM (30°-60°)	1007.0	12.7	B2/2500		
BH (60°-80°)	131.3	1.6	B1/500		G1/500
BVH (80°-90°)	0.5	0.0			G0/10
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°	47°	55°	65°	75°	85°
0°	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2
2.5°	1346.0	1345.1	1344.2	1349.7	1347.9	1346.9	1348.8	1348.8	1348.8	1343.2	1332.2
5°	1378.4	1378.4	1377.4	1383.0	1378.4	1375.6	1376.5	1376.5	1372.8	1362.6	1348.8
7.5°	1429.2	1427.3	1425.5	1431.0	1426.4	1425.5	1427.3	1421.8	1415.3	1398.7	1379.3
10°	1502.1	1502.1	1499.4	1504.9	1501.2	1499.4	1499.4	1495.7	1483.7	1457.8	1429.2
12.5°	1602.8	1598.2	1591.8	1587.1	1585.3	1584.4	1585.3	1579.7	1566.8	1533.6	1493.8
15°	1712.8	1709.1	1698.9	1691.5	1681.4	1679.5	1685.1	1680.4	1667.5	1622.2	1565.9
17.5°	1851.4	1856.0	1830.1	1814.4	1784.8	1783.0	1784.8	1792.2	1783.0	1724.8	1642.6
20°	1969.6	1973.3	1953.9	1942.8	1916.0	1904.0	1907.7	1919.7	1909.6	1841.2	1726.6
22.5°	2096.2	2100.8	2080.5	2057.4	2045.4	2045.4	2059.2	2075.8	2062.0	1972.4	1822.7
25°	2247.7	2251.4	2234.7	2204.3	2183.0	2209.8	2230.1	2274.5	2251.4	2129.4	1936.3
27.5°	2421.4	2422.3	2398.3	2366.8	2355.8	2405.6	2426.0	2494.3	2485.1	2305.9	2056.4
30°	2607.0	2608.0	2602.4	2581.2	2571.0	2636.6	2664.3	2763.2	2756.7	2524.8	2220.0
32.5°	2800.1	2800.1	2810.3	2808.4	2820.4	2927.6	2972.0	3084.7	3078.2	2792.7	2423.2
35°	2994.1	2995.1	3012.6	3056.9	3106.8	3249.1	3307.3	3444.0	3429.3	3113.3	2682.8
37.5°	3214.9	3205.7	3229.7	3296.2	3407.1	3571.5	3627.0	3757.2	3740.6	3441.3	3021.8
40°	3481.0	3464.4	3464.4	3542.0	3667.6	3857.0	3904.1	3968.8	3912.4	3706.4	3354.4
42.5°	3774.8	3759.1	3738.7	3807.1	3912.4	4060.2	4099.0	4081.5	4035.3	3956.8	3733.2
45°	4072.2	4048.2	4062.1	4103.6	4164.6	4234.8	4249.6	4168.3	4147.1	4169.2	4046.4
47.5°	4298.6	4281.9	4316.1	4374.3	4424.2	4434.4	4424.2	4311.5	4309.7	4388.2	4263.5
50°	4374.3	4376.2	4470.4	4597.9	4678.3	4686.6	4672.7	4543.4	4525.8	4548.9	4380.8
52.5°	4381.7	4389.1	4526.8	4769.7	4988.7	5088.4	5077.4	4937.9	4766.0	4741.1	4558.2
55°	4203.4	4246.8	4439.0	4793.7	5259.4	5578.1	5615.0	5348.0	5093.1	5071.8	4939.7
57.5°	3360.0	3448.7	3680.5	4185.9	4957.3	5628.9	5725.0	5532.8	5286.1	5195.6	4837.2
60°	2008.4	2118.3	2341.0	2960.9	3772.9	4626.5	4791.9	4818.7	4705.1	4443.6	3711.0
62.5°	861.9	852.7	1127.1	1601.9	2244.0	2940.5	3015.4	3131.8	3230.6	2957.2	2252.3
65°	295.6	321.5	447.1	722.4	1123.4	1365.4	1431.9	1536.3	1676.7	1383.9	825.0
67.5°	182.9	194.0	257.7	426.8	606.0	596.8	567.2	550.6	535.8	366.8	226.3
70°	133.0	142.3	181.1	293.8	407.4	286.4	248.5	201.4	223.6	206.0	160.7
72.5°	89.6	97.0	124.7	178.3	208.8	139.5	129.3	146.9	177.4	169.1	131.2
75°	53.6	58.2	71.1	86.8	85.0	72.1	73.0	103.5	135.8	126.6	93.3
77.5°	37.0	38.8	47.1	56.4	41.6	22.2	20.3	28.6	46.2	46.2	31.4
80°	9.2	12.0	12.0	7.4	6.5	5.5	5.5	8.3	12.9	9.2	4.6
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
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°	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2	1332.2
2.5°	1338.6	1327.5	1334.9	1333.1	1338.6	1340.5	1332.2	1330.3	1331.2	1320.2	1316.5
5°	1351.6	1338.6	1342.3	1338.6	1345.1	1350.6	1347.9	1351.6	1356.2	1347.9	1344.2
7.5°	1379.3	1366.3	1365.4	1359.9	1369.1	1372.8	1371.9	1382.0	1391.3	1385.7	1380.2
10°	1427.3	1409.8	1407.9	1403.3	1406.1	1408.8	1398.7	1400.5	1408.8	1402.4	1399.6
12.5°	1486.4	1465.2	1460.6	1449.5	1449.5	1435.6	1413.5	1408.8	1415.3	1410.7	1406.1
15°	1550.2	1521.5	1514.2	1494.8	1476.3	1450.4	1427.3	1421.8	1426.4	1420.8	1417.2
17.5°	1621.3	1589.0	1565.0	1530.8	1490.1	1459.6	1433.8	1421.8	1414.4	1403.3	1402.4
20°	1691.5	1649.0	1608.4	1553.9	1500.3	1454.1	1411.6	1380.2	1353.4	1336.8	1330.3
22.5°	1772.8	1710.0	1644.4	1567.7	1491.1	1420.8	1346.0	1292.4	1246.2	1230.5	1223.1
25°	1859.7	1778.4	1680.4	1580.7	1459.6	1346.9	1245.3	1165.9	1104.9	1084.6	1076.3
27.5°	1955.7	1844.0	1717.4	1577.9	1395.0	1241.6	1106.7	1007.9	947.8	929.4	935.8
30°	2077.7	1929.0	1763.6	1549.3	1298.0	1093.8	935.8	852.7	807.4	789.9	790.8
32.5°	2240.3	2050.9	1831.0	1488.3	1173.3	925.7	787.1	726.1	695.6	672.5	670.7
35°	2473.1	2236.6	1893.8	1390.4	1021.8	776.0	675.3	627.3	584.8	558.0	562.6
37.5°	2752.1	2470.3	1928.0	1258.3	851.8	659.6	591.3	542.3	494.2	454.5	459.1
40°	3082.8	2776.1	1925.3	1084.6	696.6	580.2	521.0	463.8	403.7	367.7	371.4
42.5°	3451.4	3065.3	1865.2	900.7	577.4	515.5	453.6	381.5	323.3	301.2	302.1
45°	3771.1	3299.9	1759.9	710.4	485.9	452.7	383.4	309.5	283.6	267.9	267.0
47.5°	4007.6	3471.7	1609.3	558.9	412.0	395.4	315.0	277.1	256.8	243.9	242.0
50°	4139.7	3531.8	1443.0	437.9	348.3	335.3	281.8	251.3	237.4	229.1	227.3
52.5°	4317.1	3603.9	1323.8	345.5	291.9	274.4	259.6	233.7	224.5	218.0	215.3
55°	4597.9	3743.4	1220.4	274.4	243.0	239.3	244.8	223.6	218.0	207.9	204.2
57.5°	4333.7	3362.7	947.8	212.5	205.1	218.9	236.5	213.4	199.5	190.3	186.6
60°	3049.6	2235.7	476.7	170.9	182.9	205.1	222.6	193.1	179.2	181.1	179.2
62.5°	1681.4	1118.8	214.3	143.2	158.9	181.1	190.3	167.2	158.0	173.7	176.5
65°	549.7	380.6	123.8	110.9	125.6	147.8	164.4	158.9	157.1	175.5	181.1
67.5°	169.1	125.6	84.1	79.4	86.8	109.0	138.6	171.8	184.8	190.3	193.1
70°	126.6	98.8	72.1	67.4	71.1	83.1	117.3	143.2	134.9	135.8	134.0
72.5°	101.6	78.5	61.9	59.1	59.1	57.3	61.9	77.6	87.8	92.4	92.4
75°	71.1	55.4	47.1	43.4	34.2	27.7	24.9	24.9	22.2	21.2	20.3
77.5°	24.0	20.3	18.5	14.8	10.2	8.3	7.4	6.5	4.6	2.8	1.8
80°	3.7	2.8	1.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0
82.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
85°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	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)