

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: P637066

Luminaire Tested: GWS-SA4C-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637066
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-SA4C-722-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8829.5 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

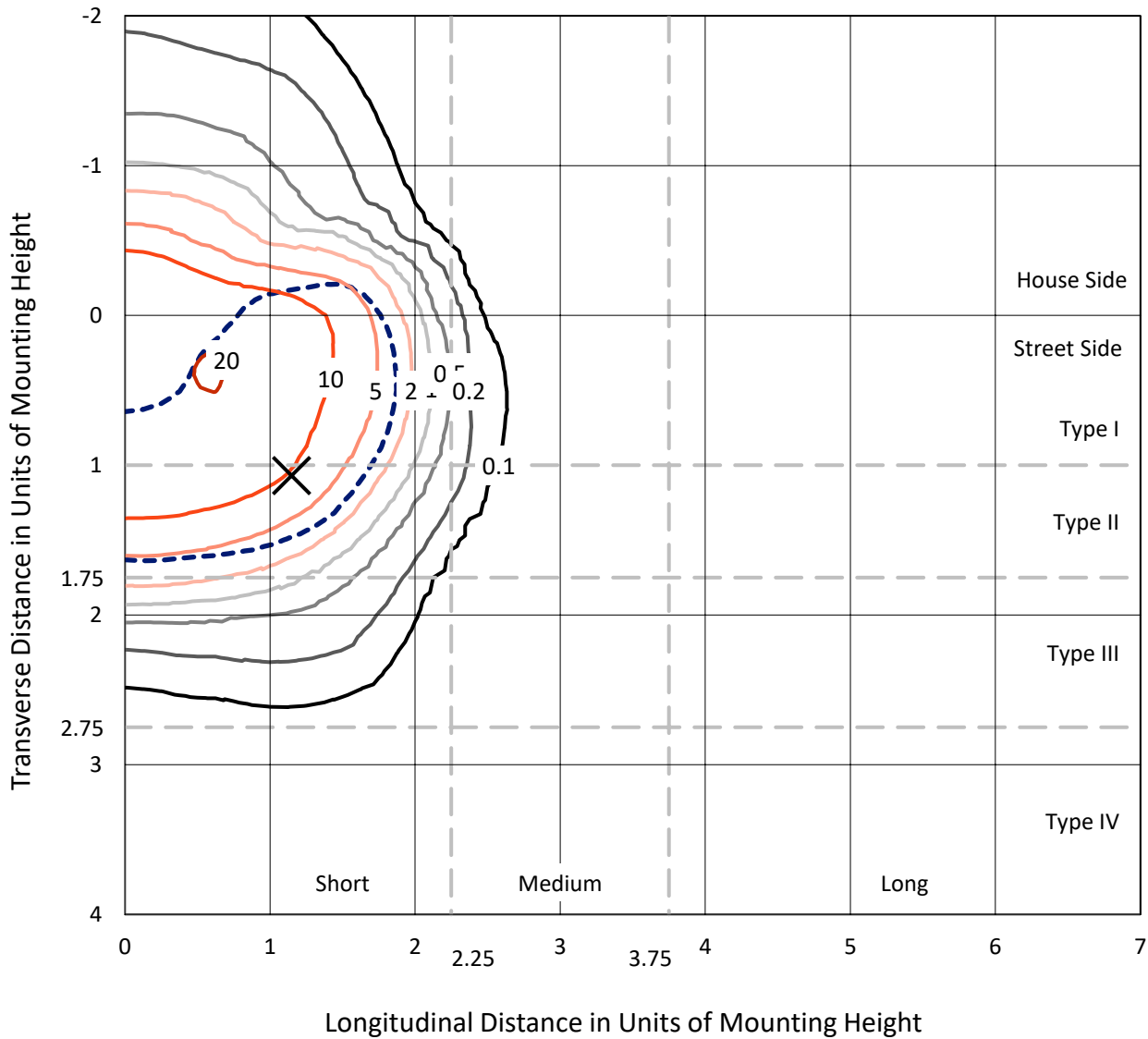
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

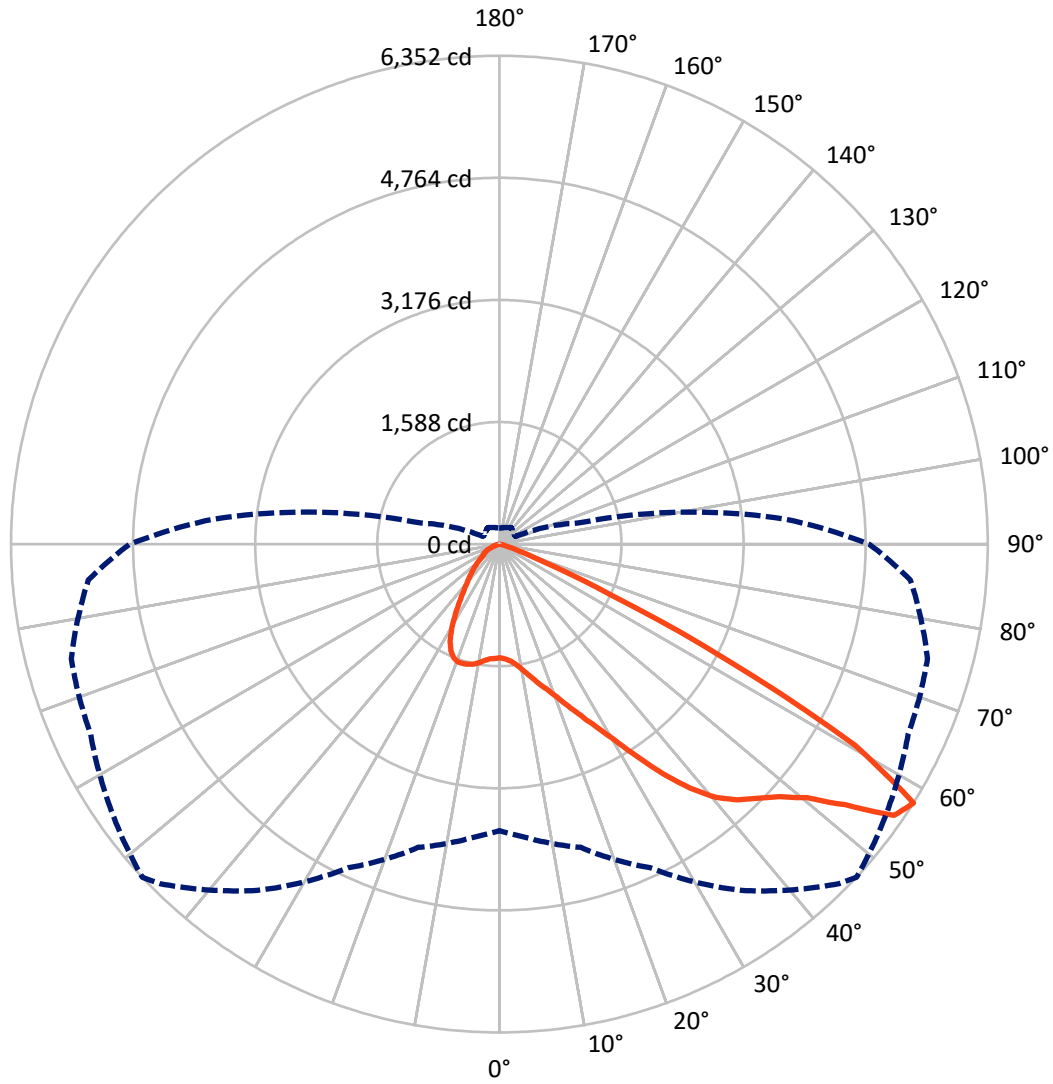
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 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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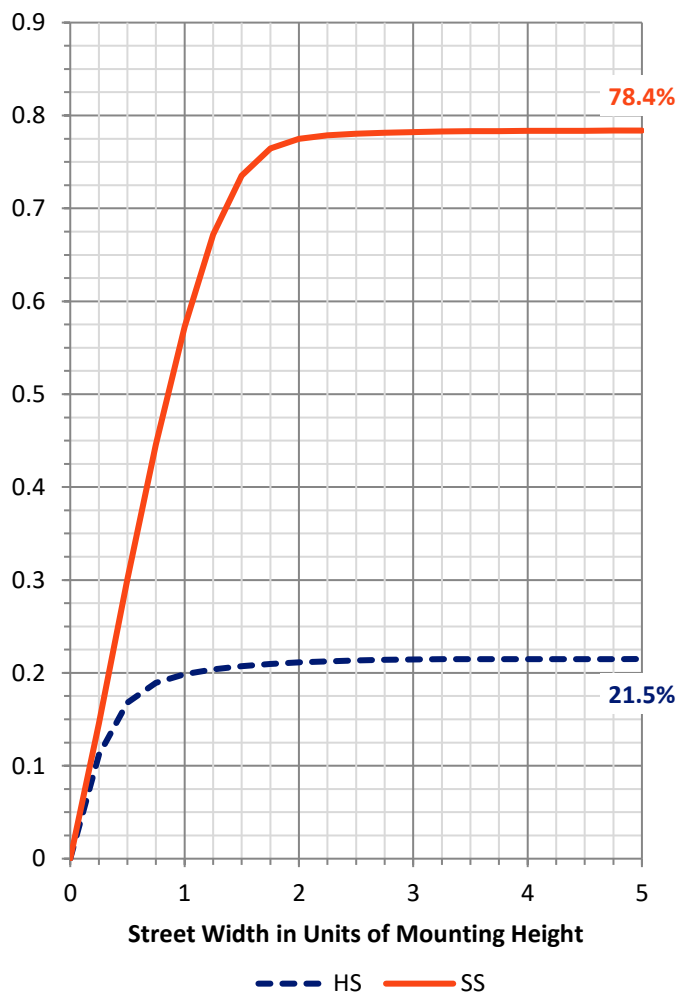
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1915.6	0.0	1915.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6914.0	0.0	6914.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	8829.5	0.0	8829.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.7
10°-20°	496.2	5.6
20°-30°	921.3	10.4
30°-40°	1474.8	16.7
40°-50°	2155.9	24.4
50°-60°	2660.7	30.1
60°-70°	889.1	10.1
70°-80°	82.9	0.9
80°-90°	1.7	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°	8829.5	100.0
0°-180°	8829.5	100.0

Coefficient of Utilization



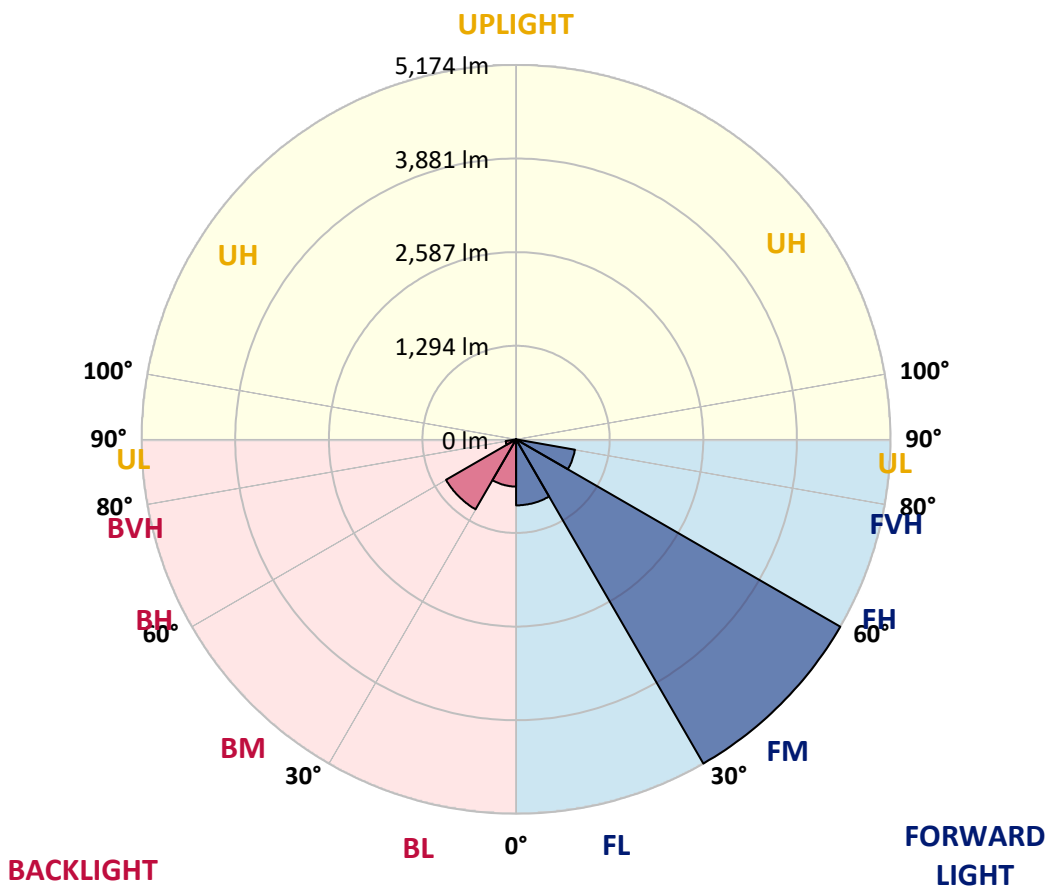
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.5	10.3			
FM (30°-60°)	5174.0	58.6			
FH (60°-80°)	826.3	9.4			G1/1800
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	652.0	7.4	B2/1000		
BM (30°-60°)	1117.4	12.7	B2/2500		
BH (60°-80°)	145.6	1.6	B1/500		G1/500
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: 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°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1493.4	1492.4	1491.4	1497.5	1495.5	1494.5	1496.5	1496.5	1496.5	1490.4	1478.1
5°	1529.3	1529.3	1528.3	1534.4	1529.3	1526.2	1527.3	1527.3	1523.2	1511.9	1496.5
7.5°	1585.7	1583.6	1581.6	1587.7	1582.6	1581.6	1583.6	1577.5	1570.3	1551.9	1530.3
10°	1666.7	1666.7	1663.6	1669.7	1665.6	1663.6	1663.6	1659.5	1646.2	1617.5	1585.7
12.5°	1778.4	1773.3	1766.1	1761.0	1758.9	1757.9	1758.9	1752.8	1738.4	1701.5	1657.4
15°	1900.4	1896.3	1885.0	1876.8	1865.5	1863.5	1869.6	1864.5	1850.1	1799.9	1737.4
17.5°	2054.1	2059.2	2030.5	2013.1	1980.3	1978.3	1980.3	1988.5	1978.3	1913.7	1822.5
20°	2185.3	2189.4	2167.9	2155.6	2125.9	2112.6	2116.7	2130.0	2118.7	2042.8	1915.7
22.5°	2325.8	2330.9	2308.3	2282.7	2269.4	2269.4	2284.8	2303.2	2287.8	2188.4	2022.3
25°	2493.9	2498.0	2479.5	2445.7	2422.1	2451.8	2474.4	2523.6	2498.0	2362.7	2148.4
27.5°	2686.6	2687.6	2660.9	2626.1	2613.8	2669.1	2691.7	2767.5	2757.3	2558.4	2281.7
30°	2892.6	2893.6	2887.5	2863.9	2852.6	2925.4	2956.1	3065.8	3058.6	2801.4	2463.1
32.5°	3106.8	3106.8	3118.1	3116.0	3129.4	3248.3	3297.5	3422.5	3415.3	3098.6	2688.6
35°	3322.1	3323.1	3342.6	3391.8	3447.1	3605.0	3669.5	3821.2	3804.8	3454.3	2976.6
37.5°	3567.0	3556.8	3583.4	3657.2	3780.2	3962.7	4024.2	4168.7	4150.3	3818.2	3352.8
40°	3862.2	3843.8	3843.8	3929.9	4069.3	4279.4	4331.7	4403.5	4340.9	4112.3	3721.8
42.5°	4188.2	4170.8	4148.2	4224.1	4340.9	4504.9	4548.0	4528.5	4477.3	4390.1	4142.1
45°	4518.3	4491.6	4507.0	4553.1	4620.8	4698.7	4715.1	4624.9	4601.3	4625.9	4489.6
47.5°	4769.4	4750.9	4788.9	4853.4	4908.8	4920.1	4908.8	4783.7	4781.7	4868.8	4730.4
50°	4853.4	4855.5	4960.0	5101.5	5190.7	5199.9	5184.5	5041.0	5021.5	5047.2	4860.6
52.5°	4861.6	4869.8	5022.6	5292.1	5535.1	5645.8	5633.5	5478.7	5288.0	5260.4	5057.4
55°	4663.8	4712.0	4925.2	5318.8	5835.4	6189.0	6230.0	5933.8	5650.9	5627.3	5480.7
57.5°	3728.0	3826.4	4083.6	4644.3	5500.2	6245.4	6352.0	6138.8	5865.1	5764.7	5367.0
60°	2228.4	2350.4	2597.4	3285.2	4186.2	5133.3	5316.7	5346.5	5220.4	4930.3	4117.5
62.5°	956.3	946.1	1250.5	1777.4	2489.8	3262.6	3345.6	3474.8	3584.5	3281.1	2499.0
65°	328.0	356.7	496.1	801.6	1246.4	1515.0	1588.8	1704.6	1860.4	1535.5	915.3
67.5°	203.0	215.3	286.0	473.6	672.4	662.2	629.4	610.9	594.5	406.9	251.1
70°	147.6	157.9	200.9	326.0	452.0	317.8	275.7	223.5	248.1	228.6	178.4
72.5°	99.4	107.6	138.4	197.8	231.7	154.8	143.5	163.0	196.8	187.6	145.6
75°	59.5	64.6	78.9	96.4	94.3	80.0	81.0	114.8	150.7	140.4	103.5
77.5°	41.0	43.1	52.3	62.5	46.1	24.6	22.6	31.8	51.3	51.3	34.9
80°	10.3	13.3	13.3	8.2	7.2	6.2	6.2	9.2	14.4	10.3	5.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
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°	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1	1478.1
2.5°	1485.2	1472.9	1481.1	1479.1	1485.2	1487.3	1478.1	1476.0	1477.0	1464.7	1460.6
5°	1499.6	1485.2	1489.3	1485.2	1492.4	1498.6	1495.5	1499.6	1504.7	1495.5	1491.4
7.5°	1530.3	1516.0	1515.0	1508.8	1519.1	1523.2	1522.1	1533.4	1543.7	1537.5	1531.4
10°	1583.6	1564.2	1562.1	1557.0	1560.1	1563.1	1551.9	1553.9	1563.1	1556.0	1552.9
12.5°	1649.2	1625.7	1620.5	1608.2	1608.2	1592.9	1568.3	1563.1	1570.3	1565.2	1560.1
15°	1720.0	1688.2	1680.0	1658.5	1638.0	1609.3	1583.6	1577.5	1582.6	1576.5	1572.4
17.5°	1798.9	1763.0	1736.4	1698.4	1653.3	1619.5	1590.8	1577.5	1569.3	1557.0	1556.0
20°	1876.8	1829.6	1784.5	1724.1	1664.6	1613.4	1566.2	1531.4	1501.6	1483.2	1476.0
22.5°	1967.0	1897.3	1824.5	1739.4	1654.4	1576.5	1493.4	1434.0	1382.7	1365.3	1357.1
25°	2063.3	1973.1	1864.5	1753.8	1619.5	1494.5	1381.7	1293.6	1225.9	1203.4	1194.1
27.5°	2170.0	2045.9	1905.5	1750.7	1547.8	1377.6	1228.0	1118.3	1051.7	1031.2	1038.3
30°	2305.3	2140.2	1956.7	1718.9	1440.1	1213.6	1038.3	946.1	895.9	876.4	877.4
32.5°	2485.7	2275.5	2031.6	1651.3	1301.8	1027.1	873.3	805.7	771.8	746.2	744.2
35°	2744.0	2481.6	2101.3	1542.6	1133.7	861.0	749.3	696.0	648.8	619.1	624.2
37.5°	3053.5	2740.9	2139.2	1396.1	945.1	731.9	656.0	601.7	548.4	504.3	509.4
40°	3420.5	3080.2	2136.1	1203.4	772.9	643.7	578.1	514.6	447.9	408.0	412.1
42.5°	3829.4	3401.0	2069.5	999.4	640.6	572.0	503.3	423.3	358.8	334.2	335.2
45°	4184.1	3661.3	1952.6	788.2	539.2	502.3	425.4	343.4	314.7	297.3	296.2
47.5°	4446.5	3852.0	1785.6	620.1	457.2	438.7	349.5	307.5	285.0	270.6	268.6
50°	4593.1	3918.6	1601.1	485.9	386.4	372.1	312.6	278.8	263.4	254.2	252.2
52.5°	4789.9	3998.6	1468.8	383.4	323.9	304.4	288.0	259.3	249.1	241.9	238.8
55°	5101.5	4153.3	1354.0	304.4	269.6	265.5	271.6	248.1	241.9	230.6	226.5
57.5°	4808.3	3731.0	1051.7	235.8	227.6	242.9	262.4	236.8	221.4	211.2	207.1
60°	3383.6	2480.5	528.9	189.6	203.0	227.6	247.0	214.2	198.9	200.9	198.9
62.5°	1865.5	1241.3	237.8	158.9	176.3	200.9	211.2	185.5	175.3	192.7	195.8
65°	609.9	422.3	137.4	123.0	139.4	164.0	182.5	176.3	174.3	194.8	200.9
67.5°	187.6	139.4	93.3	88.2	96.4	121.0	153.8	190.7	205.0	211.2	214.2
70°	140.4	109.7	80.0	74.8	78.9	92.3	130.2	158.9	149.7	150.7	148.6
72.5°	112.8	87.1	68.7	65.6	65.6	63.6	68.7	86.1	97.4	102.5	102.5
75°	78.9	61.5	52.3	48.2	37.9	30.8	27.7	27.7	24.6	23.6	22.6
77.5°	26.7	22.6	20.5	16.4	11.3	9.2	8.2	7.2	5.1	3.1	2.1
80°	4.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0	0.0	0.0	0.0
82.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	1.0	1.0	1.0	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)