

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: P636574

Luminaire Tested: GWS-SA4B-722-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10669 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

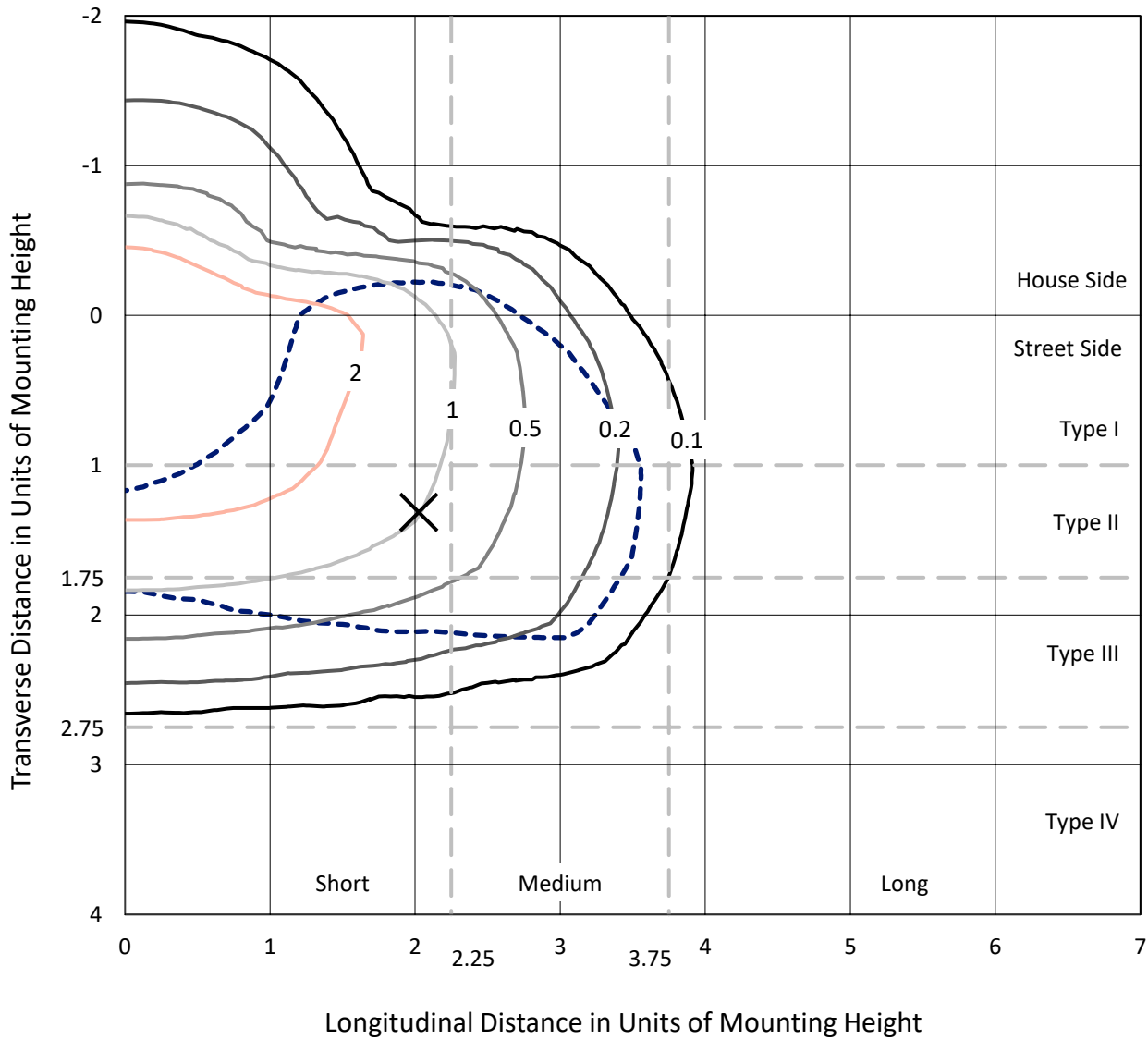
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

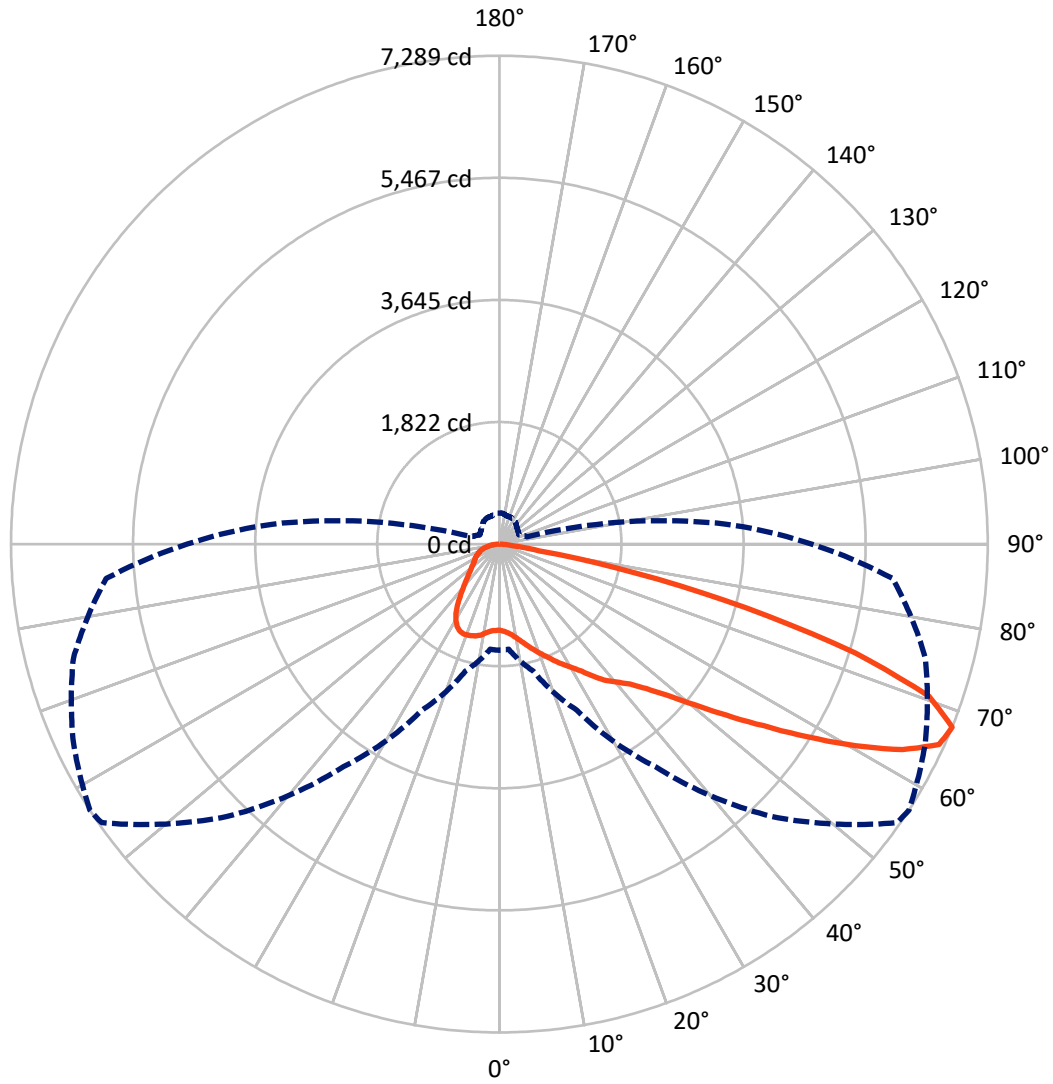
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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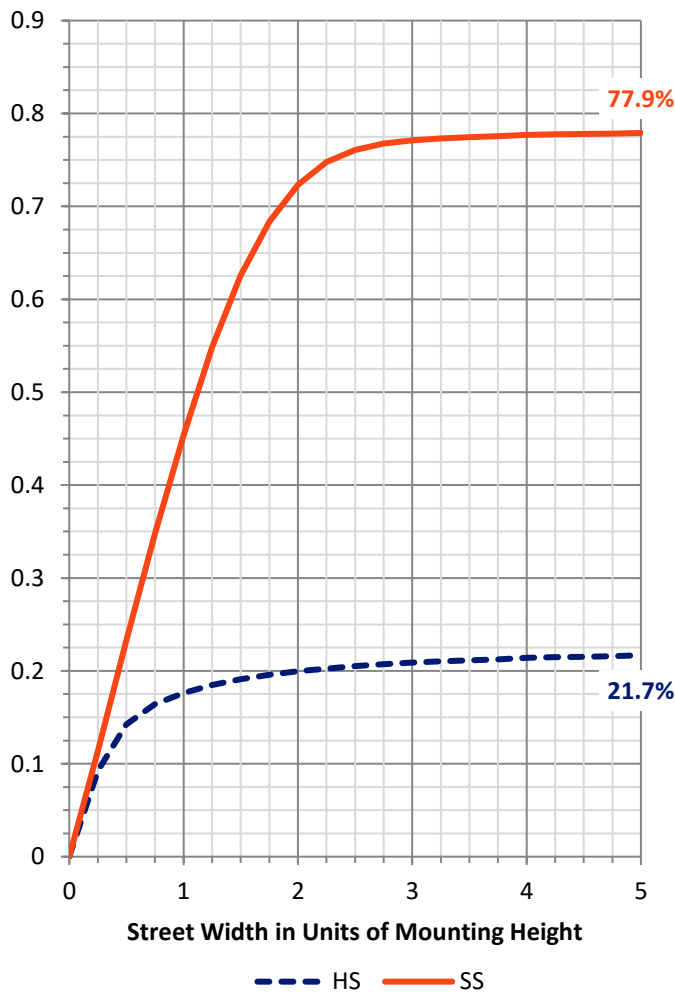
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2345.7	0.0	2345.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8323.3	0.0	8323.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	10669.0	0.0	10669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.2
10°-20°	422.1	4.0
20°-30°	752.5	7.1
30°-40°	1094.0	10.3
40°-50°	1583.4	14.8
50°-60°	2478.0	23.2
60°-70°	2890.8	27.1
70°-80°	1206.7	11.3
80°-90°	113.9	1.1
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°	10669.0	100.0
0°-180°	10669.0	100.0

Coefficient of Utilization



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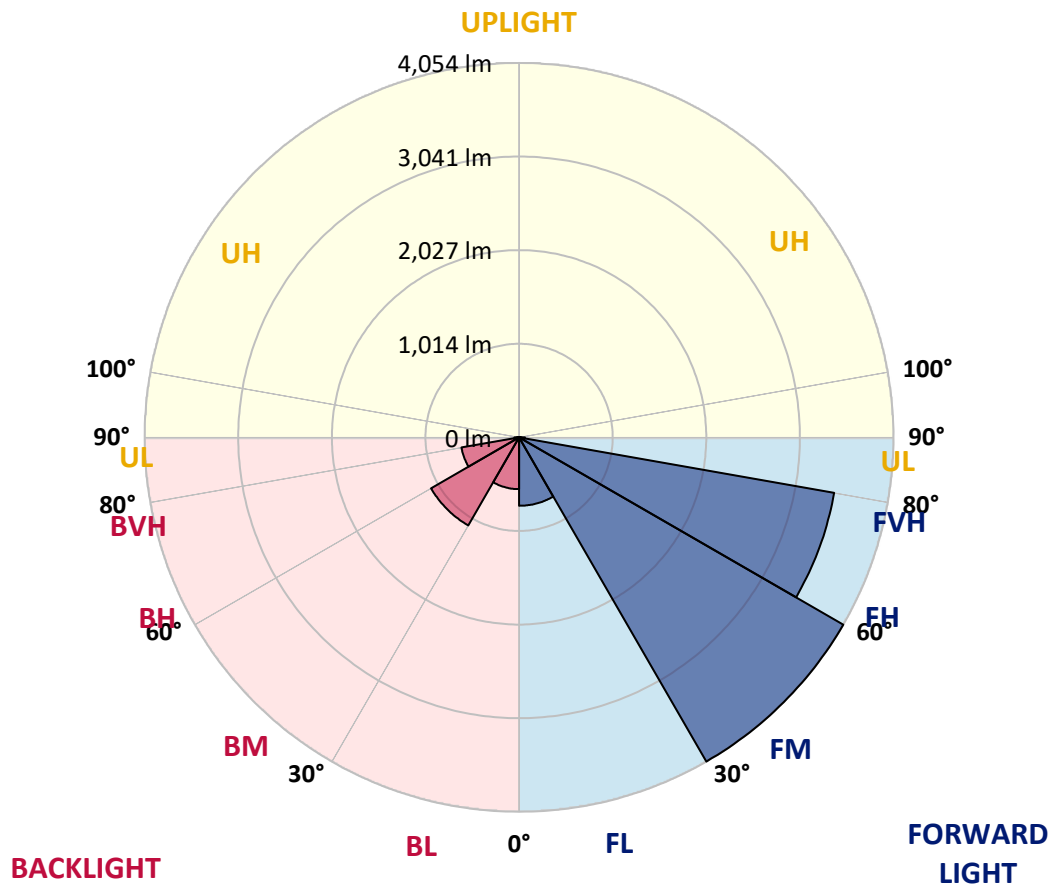
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.1	6.9			
FM (30°-60°)	4054.4	38.0			
FH (60°-80°)	3464.4	32.5			G2/5000
FVH (80°-90°)	63.4	0.6			G1/100
BL (0°-30°)	561.0	5.3	B2/1000		
BM (30°-60°)	1101.1	10.3	B2/2500		
BH (60°-80°)	633.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	50.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5
2.5°	1303.9	1302.4	1301.6	1306.2	1304.6	1303.9	1303.9	1303.1	1301.6	1295.5	1287.1
5°	1339.8	1336.7	1333.7	1337.5	1334.5	1331.4	1330.6	1329.1	1323.8	1314.6	1301.6
7.5°	1377.3	1374.2	1375.0	1377.3	1375.0	1373.4	1371.1	1369.6	1361.2	1346.7	1329.1
10°	1430.0	1430.0	1431.5	1433.8	1434.6	1432.3	1427.7	1425.4	1415.5	1397.1	1372.7
12.5°	1506.4	1504.9	1504.9	1503.4	1505.7	1503.4	1498.8	1495.0	1482.7	1459.0	1423.9
15°	1607.3	1601.2	1595.8	1585.9	1582.9	1574.4	1576.0	1573.7	1562.2	1530.1	1485.8
17.5°	1715.1	1714.3	1705.9	1686.0	1666.2	1652.4	1655.5	1654.7	1648.6	1605.0	1548.5
20°	1809.8	1813.7	1806.0	1790.7	1764.0	1738.0	1736.5	1740.3	1732.7	1689.1	1610.4
22.5°	1916.1	1913.0	1905.4	1885.5	1865.6	1838.1	1829.0	1825.9	1822.8	1773.2	1673.8
25°	2017.0	2026.1	2016.2	1997.9	1967.3	1937.5	1929.8	1932.9	1924.5	1858.8	1741.8
27.5°	2144.6	2148.4	2142.3	2117.1	2091.1	2049.1	2034.5	2034.5	2031.5	1939.0	1795.3
30°	2280.7	2291.4	2280.7	2260.0	2233.3	2172.9	2141.6	2138.5	2129.3	2021.6	1858.0
32.5°	2417.5	2425.1	2417.5	2397.6	2367.0	2314.3	2269.2	2262.3	2250.1	2111.7	1922.2
35°	2539.0	2545.9	2544.3	2548.9	2523.7	2457.2	2429.7	2426.6	2394.5	2229.4	2009.3
37.5°	2672.0	2680.4	2668.9	2678.1	2668.1	2605.5	2597.1	2581.8	2535.9	2340.3	2101.0
40°	2823.3	2830.9	2812.6	2816.4	2805.0	2769.8	2727.0	2706.4	2638.3	2460.3	2245.5
42.5°	2985.3	3002.9	3011.3	3004.4	2977.7	2957.8	2882.9	2856.9	2800.4	2676.6	2483.2
45°	3220.0	3246.0	3258.2	3240.6	3229.1	3200.9	3109.1	3077.8	3048.0	2981.5	2814.9
47.5°	3473.0	3496.6	3535.6	3543.3	3552.4	3531.0	3401.9	3371.3	3376.6	3369.0	3223.0
50°	3674.7	3694.6	3782.5	3876.5	3954.5	3960.6	3795.5	3762.6	3791.7	3816.1	3714.5
52.5°	3821.5	3839.0	3955.2	4149.4	4325.9	4456.6	4278.5	4241.1	4264.8	4319.8	4273.2
55°	3940.7	3965.2	4086.7	4384.8	4741.7	4948.0	4834.2	4786.8	4776.8	4844.9	4871.6
57.5°	4003.4	4011.0	4181.5	4568.9	5046.6	5430.3	5480.0	5426.5	5331.7	5369.2	5508.3
60°	3860.4	3873.4	4106.5	4616.3	5287.4	5908.8	6157.9	6113.6	5911.8	5932.4	6086.1
62.5°	3465.3	3483.7	3764.1	4390.9	5307.3	6228.2	6783.9	6755.6	6485.0	6373.4	6419.3
65°	2779.7	2785.9	3076.3	3832.9	4912.1	6268.0	7220.3	7213.4	6885.5	6624.1	6427.7
67.5°	1585.1	1574.4	1962.7	2733.9	4053.8	5751.3	7248.6	7289.1	7015.5	6582.9	5892.7
70°	687.1	688.6	867.5	1349.0	2623.8	4648.4	6732.7	6802.2	6639.4	5895.8	4688.2
72.5°	317.9	322.5	399.7	583.9	1120.5	2883.7	5489.9	5552.6	5412.7	4718.7	3411.0
75°	224.7	228.5	266.7	334.8	515.1	1123.5	3672.4	3803.9	3871.9	3529.5	2247.8
77.5°	170.4	175.8	194.9	232.3	317.9	398.2	1757.1	2070.5	2466.4	2195.8	1157.9
80°	108.5	108.5	129.2	155.2	194.1	207.1	507.5	601.5	1206.8	904.9	454.8
82.5°	73.4	75.7	87.9	98.6	111.6	117.7	217.8	232.3	348.5	308.0	187.3
85°	39.0	40.5	45.9	45.1	53.5	46.6	91.7	91.0	127.6	139.9	71.1
87.5°	0.0	0.0	0.8	0.8	1.5	2.3	9.9	10.7	26.8	42.8	23.7
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°	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5	1285.5
2.5°	1291.7	1282.5	1287.1	1285.5	1290.1	1290.1	1281.7	1279.4	1280.2	1271.0	1268.0
5°	1303.1	1292.4	1294.7	1291.7	1296.2	1300.1	1296.2	1296.2	1300.8	1293.9	1290.1
7.5°	1329.1	1316.9	1316.9	1313.1	1318.4	1321.5	1318.4	1323.0	1331.4	1324.5	1320.7
10°	1370.4	1355.9	1356.6	1352.0	1354.3	1352.8	1340.6	1336.7	1339.0	1332.9	1329.9
12.5°	1423.9	1404.0	1404.0	1394.8	1389.5	1373.4	1348.2	1339.0	1340.6	1335.2	1332.9
15°	1475.1	1456.7	1452.9	1434.6	1410.1	1380.3	1357.4	1351.3	1352.8	1347.4	1343.6
17.5°	1535.5	1511.8	1498.0	1464.4	1419.3	1388.7	1365.8	1351.3	1339.0	1326.8	1323.8
20°	1591.3	1561.5	1536.2	1484.3	1429.2	1387.2	1344.4	1308.5	1278.7	1262.6	1258.8
22.5°	1648.6	1610.4	1566.0	1498.0	1428.5	1359.7	1281.0	1226.7	1182.4	1158.7	1163.3
25°	1702.8	1654.7	1594.3	1511.0	1404.0	1298.5	1191.5	1110.5	1060.1	1041.7	1036.4
27.5°	1747.9	1688.3	1620.3	1504.9	1353.6	1210.6	1069.2	979.1	930.1	909.5	904.2
30°	1798.4	1731.1	1657.8	1476.6	1274.1	1087.6	930.9	857.5	822.4	802.5	803.3
32.5°	1856.5	1786.2	1710.5	1422.4	1172.4	954.6	817.0	766.6	738.3	718.4	715.4
35°	1934.4	1864.9	1745.6	1340.6	1043.3	832.3	739.1	697.8	662.6	636.7	631.3
37.5°	2030.7	1983.3	1749.5	1231.3	904.9	748.2	683.3	638.9	596.1	561.8	557.9
40°	2195.8	2141.6	1718.1	1094.5	787.2	694.0	636.7	585.4	535.8	497.6	492.2
42.5°	2431.2	2319.6	1650.9	940.1	698.6	651.2	592.3	527.4	476.9	450.2	446.3
45°	2730.8	2518.3	1550.0	794.9	632.8	609.1	545.7	477.7	450.9	431.8	428.0
47.5°	3097.7	2749.9	1433.8	681.7	581.6	570.9	498.3	460.9	437.2	421.1	417.3
50°	3536.4	3044.9	1338.3	593.1	535.8	526.6	483.0	450.9	431.8	418.8	415.8
52.5°	4037.0	3372.8	1291.7	529.7	496.0	486.9	477.7	448.6	432.6	422.7	418.8
55°	4556.7	3718.3	1248.1	480.7	462.4	467.7	478.4	456.3	444.1	431.1	427.2
57.5°	5058.9	4042.3	1141.1	442.5	437.9	458.6	482.3	463.9	449.4	436.4	431.8
60°	5405.1	4219.7	960.0	412.0	419.6	447.1	472.3	452.5	434.1	428.8	426.5
62.5°	5498.3	4198.3	745.2	380.6	397.4	421.9	446.3	433.4	414.2	422.7	423.4
65°	5280.5	3969.0	559.5	350.0	368.4	389.0	419.6	414.2	407.4	430.3	431.1
67.5°	4663.7	3405.7	426.5	323.3	338.6	363.8	411.2	433.4	434.9	463.9	460.9
70°	3528.7	2544.3	334.0	298.1	315.7	363.8	437.9	447.9	429.5	456.3	450.2
72.5°	2439.6	1679.2	284.3	275.9	287.4	347.0	437.2	437.2	417.3	417.3	405.8
75°	1515.6	987.5	247.6	247.6	247.6	303.4	424.9	402.8	367.6	351.6	342.4
77.5°	748.2	480.0	207.9	215.5	207.1	253.7	347.0	329.4	308.0	291.2	285.1
80°	319.5	240.0	168.1	176.6	166.6	191.1	275.1	271.3	250.7	228.5	221.6
82.5°	146.7	123.8	134.5	138.3	121.5	143.7	201.0	201.0	189.5	159.0	147.5
85°	62.7	65.7	93.2	93.2	76.4	81.0	107.8	102.4	91.7	74.9	68.8
87.5°	21.4	32.1	47.4	41.3	16.1	6.9	3.8	1.5	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)