

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: P639046

Luminaire Tested: GWS-SA5B-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639046
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-SA5B-722-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8076.4 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

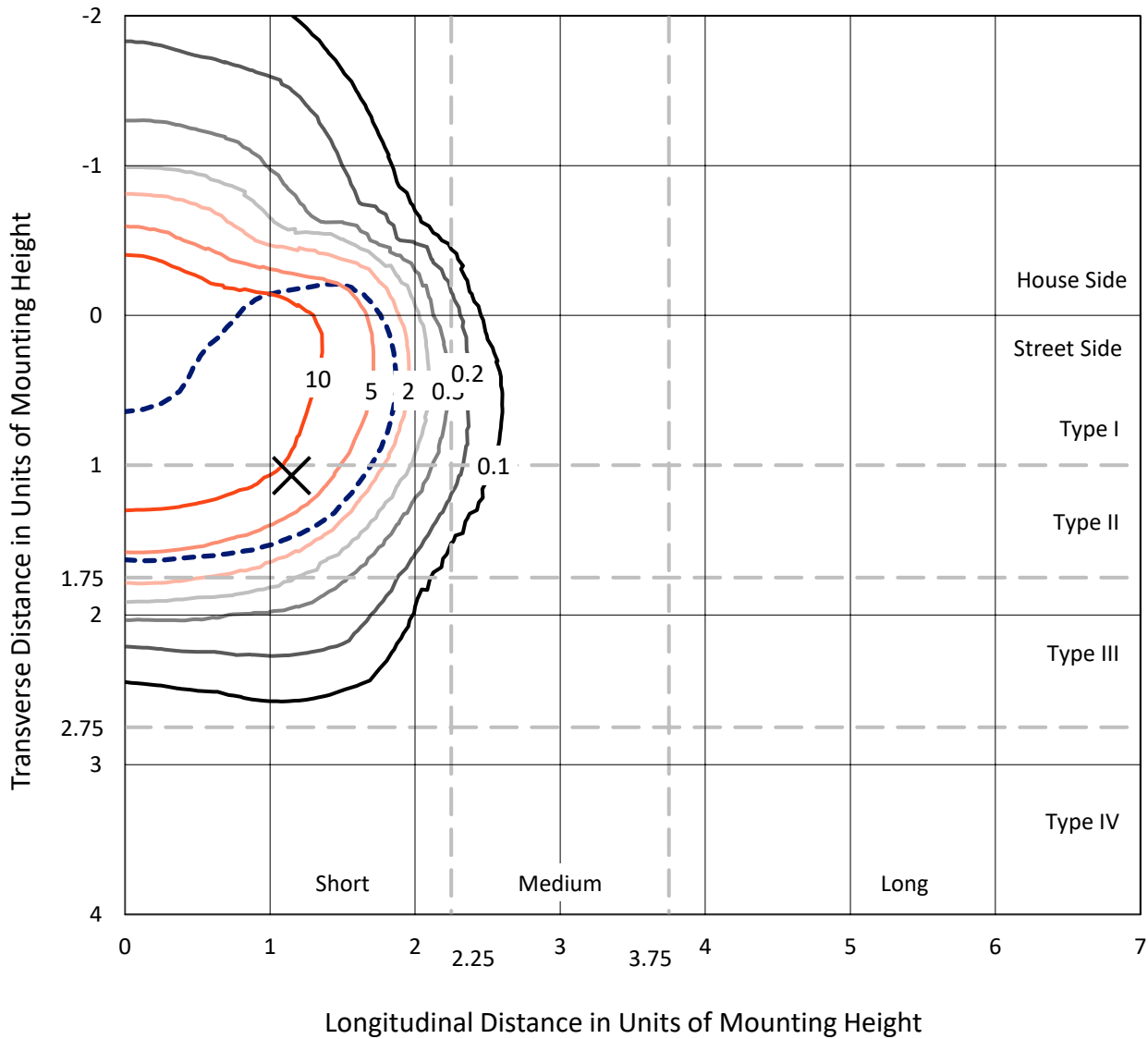
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

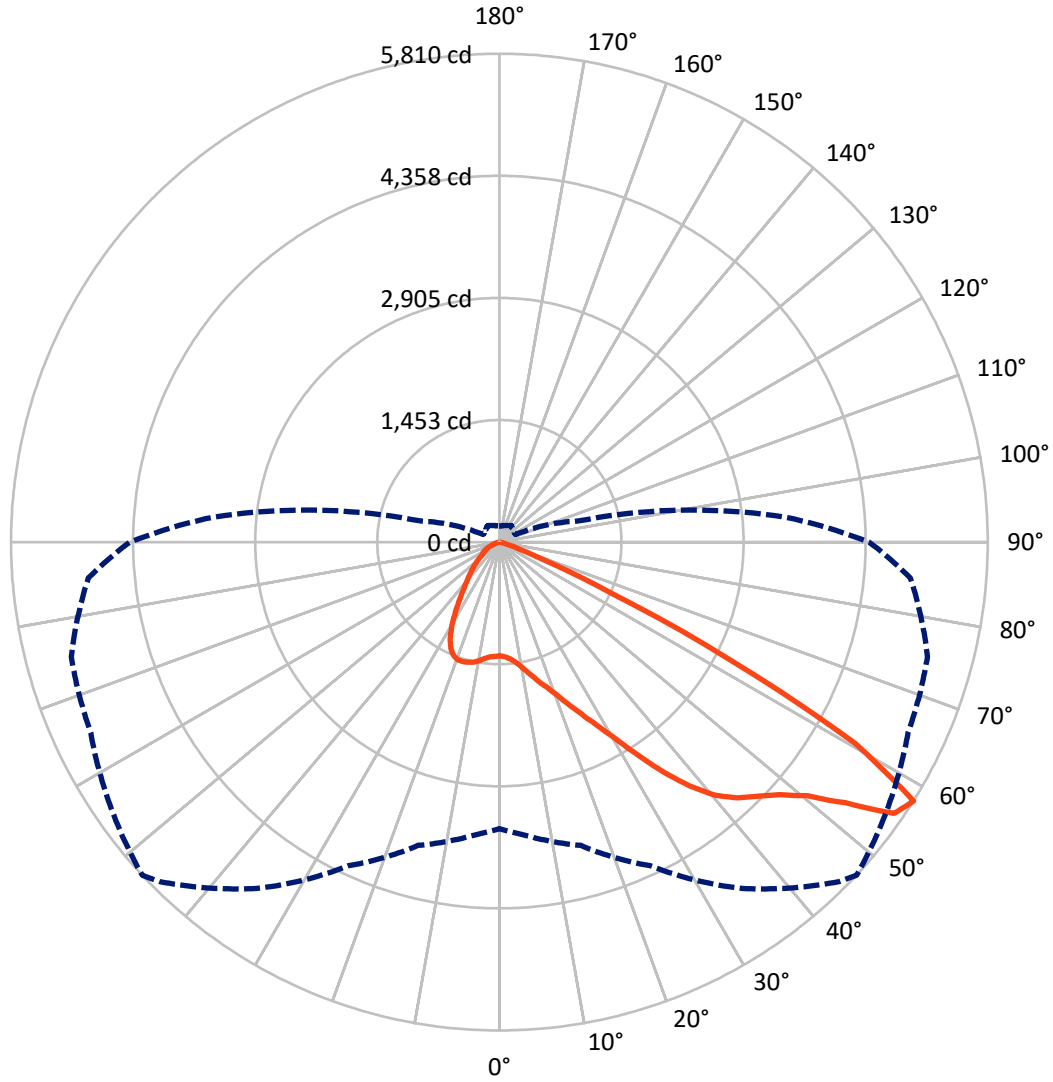
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 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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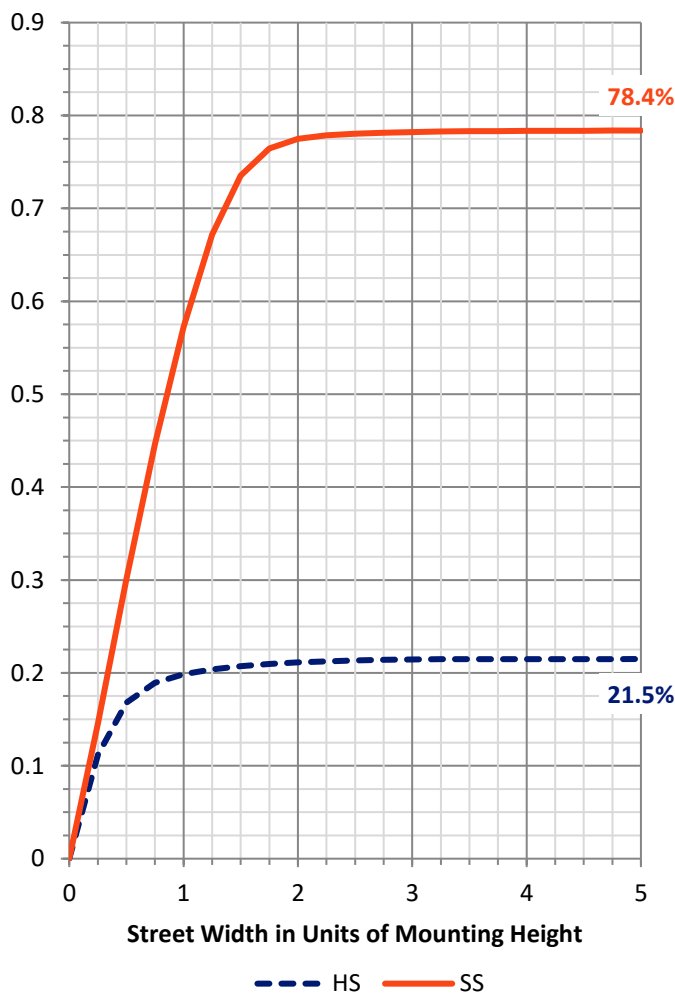
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1752.2	0.0	1752.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6324.2	0.0	6324.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	8076.4	0.0	8076.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.7
10°-20°	453.9	5.6
20°-30°	842.7	10.4
30°-40°	1349.0	16.7
40°-50°	1972.0	24.4
50°-60°	2433.8	30.1
60°-70°	813.2	10.1
70°-80°	75.8	0.9
80°-90°	1.6	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°	8076.4	100.0
0°-180°	8076.4	100.0

Coefficient of Utilization



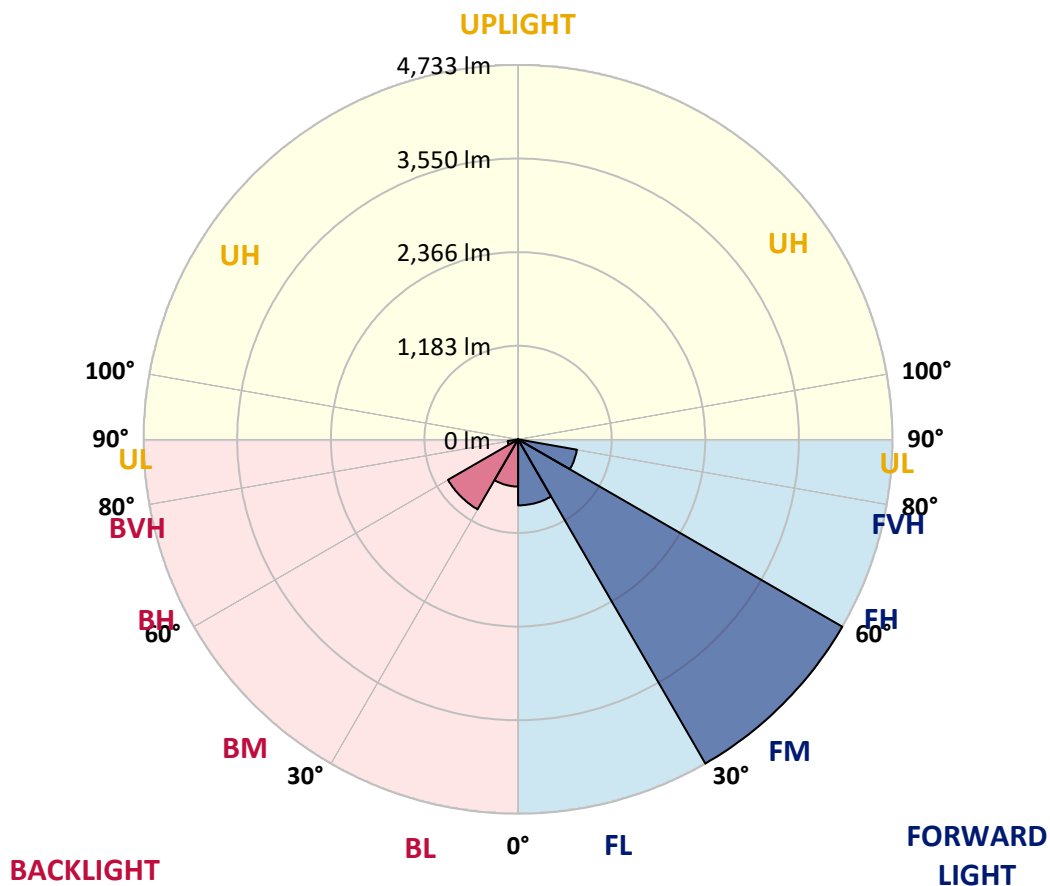
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.7	10.3			
FM (30°-60°)	4732.7	58.6			
FH (60°-80°)	755.8	9.4			G1/1800
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	596.4	7.4	B2/1000		
BM (30°-60°)	1022.0	12.7	B2/2500		
BH (60°-80°)	133.2	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°	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0
2.5°	1366.1	1365.1	1364.2	1369.8	1367.9	1367.0	1368.9	1368.9	1368.9	1363.2	1352.0
5°	1398.9	1398.9	1397.9	1403.6	1398.9	1396.1	1397.0	1397.0	1393.3	1382.9	1368.9
7.5°	1450.4	1448.6	1446.7	1452.3	1447.6	1446.7	1448.6	1442.9	1436.4	1419.5	1399.8
10°	1524.5	1524.5	1521.7	1527.3	1523.6	1521.7	1521.7	1518.0	1505.8	1479.5	1450.4
12.5°	1626.7	1622.0	1615.5	1610.8	1608.9	1608.0	1608.9	1603.3	1590.1	1556.4	1516.1
15°	1738.3	1734.5	1724.2	1716.7	1706.4	1704.5	1710.2	1705.5	1692.3	1646.4	1589.2
17.5°	1878.9	1883.6	1857.4	1841.4	1811.4	1809.5	1811.4	1818.9	1809.5	1750.5	1667.0
20°	1998.9	2002.7	1983.0	1971.7	1944.6	1932.4	1936.1	1948.3	1938.0	1868.6	1752.3
22.5°	2127.4	2132.1	2111.4	2088.0	2075.8	2075.8	2089.9	2106.8	2092.7	2001.7	1849.9
25°	2281.1	2284.9	2268.0	2237.1	2215.5	2242.7	2263.3	2308.3	2284.9	2161.1	1965.2
27.5°	2457.4	2458.3	2434.0	2402.1	2390.8	2441.5	2462.1	2531.5	2522.1	2340.2	2087.1
30°	2645.9	2646.8	2641.2	2619.6	2609.3	2675.9	2704.0	2804.3	2797.8	2562.4	2253.0
32.5°	2841.8	2841.8	2852.1	2850.3	2862.4	2971.2	3016.2	3130.6	3124.0	2834.3	2459.3
35°	3038.7	3039.7	3057.5	3102.5	3153.1	3297.5	3356.6	3495.3	3480.3	3159.7	2722.7
37.5°	3262.8	3253.4	3277.8	3345.3	3457.8	3624.7	3681.0	3813.2	3796.3	3492.5	3066.8
40°	3532.8	3515.9	3515.9	3594.7	3722.2	3914.4	3962.2	4027.9	3970.7	3761.6	3404.4
42.5°	3831.0	3815.0	3794.4	3863.8	3970.7	4120.7	4160.1	4142.3	4095.4	4015.7	3788.8
45°	4132.9	4108.5	4122.6	4164.8	4226.6	4297.9	4312.9	4230.4	4208.8	4231.3	4106.6
47.5°	4362.6	4345.7	4380.4	4439.5	4490.1	4500.4	4490.1	4375.7	4373.8	4453.5	4327.0
50°	4439.5	4441.3	4537.0	4666.4	4747.9	4756.4	4742.3	4611.0	4593.2	4616.7	4446.0
52.5°	4447.0	4454.5	4594.2	4840.8	5063.0	5164.2	5153.0	5011.4	4837.0	4811.7	4626.0
55°	4266.0	4310.1	4505.1	4865.1	5337.7	5661.1	5698.6	5427.7	5168.9	5147.3	5013.3
57.5°	3410.0	3500.0	3735.3	4248.2	5031.1	5712.7	5810.2	5615.2	5364.9	5273.0	4909.2
60°	2038.3	2149.9	2375.8	3005.0	3829.1	4695.4	4863.3	4890.4	4775.1	4509.8	3766.3
62.5°	874.8	865.4	1143.9	1625.8	2277.4	2984.3	3060.3	3178.4	3278.7	3001.2	2285.8
65°	300.0	326.3	453.8	733.2	1140.1	1385.8	1453.3	1559.2	1701.7	1404.5	837.3
67.5°	185.6	196.9	261.6	433.2	615.1	605.7	575.7	558.8	543.8	372.2	229.7
70°	135.0	144.4	183.8	298.2	413.5	290.7	252.2	204.4	226.9	209.1	163.1
72.5°	90.9	98.4	126.6	181.0	211.9	141.6	131.3	149.1	180.0	171.6	133.1
75°	54.4	59.1	72.2	88.1	86.3	73.1	74.1	105.0	137.8	128.4	94.7
77.5°	37.5	39.4	47.8	57.2	42.2	22.5	20.6	29.1	46.9	46.9	31.9
80°	9.4	12.2	12.2	7.5	6.6	5.6	5.6	8.4	13.1	9.4	4.7
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
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°	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0	1352.0
2.5°	1358.6	1347.3	1354.8	1352.9	1358.6	1360.4	1352.0	1350.1	1351.1	1339.8	1336.1
5°	1371.7	1358.6	1362.3	1358.6	1365.1	1370.7	1367.9	1371.7	1376.4	1367.9	1364.2
7.5°	1399.8	1386.7	1385.8	1380.1	1389.5	1393.3	1392.3	1402.6	1412.0	1406.4	1400.8
10°	1448.6	1430.8	1428.9	1424.2	1427.0	1429.8	1419.5	1421.4	1429.8	1423.3	1420.4
12.5°	1508.6	1487.0	1482.3	1471.1	1471.1	1457.0	1434.5	1429.8	1436.4	1431.7	1427.0
15°	1573.3	1544.2	1536.7	1517.0	1498.3	1472.0	1448.6	1442.9	1447.6	1442.0	1438.3
17.5°	1645.5	1612.6	1588.3	1553.6	1512.3	1481.4	1455.1	1442.9	1435.4	1424.2	1423.3
20°	1716.7	1673.6	1632.3	1577.0	1522.6	1475.8	1432.6	1400.8	1373.6	1356.7	1350.1
22.5°	1799.2	1735.5	1668.9	1591.1	1513.3	1442.0	1366.1	1311.7	1264.8	1248.9	1241.4
25°	1887.4	1804.9	1705.5	1604.2	1481.4	1367.0	1263.9	1183.2	1121.4	1100.7	1092.3
27.5°	1984.9	1871.4	1743.0	1601.4	1415.8	1260.1	1123.2	1022.9	962.0	943.2	949.8
30°	2108.6	1957.7	1789.9	1572.3	1317.3	1110.1	949.8	865.4	819.4	801.6	802.6
32.5°	2273.6	2081.4	1858.3	1510.4	1190.7	939.5	798.8	736.9	706.0	682.6	680.7
35°	2509.9	2269.9	1922.0	1411.1	1037.0	787.6	685.4	636.6	593.5	566.3	571.0
37.5°	2793.1	2507.1	1956.7	1277.0	864.5	669.4	600.1	550.4	501.6	461.3	466.0
40°	3128.7	2817.4	1953.9	1100.7	706.9	588.8	528.8	470.7	409.7	373.2	376.9
42.5°	3502.8	3110.9	1893.0	914.1	586.0	523.2	460.4	387.2	328.2	305.7	306.6
45°	3827.2	3349.1	1786.1	721.0	493.2	459.4	389.1	314.1	287.8	271.9	271.0
47.5°	4067.2	3523.4	1633.3	567.2	418.2	401.3	319.7	281.3	260.6	247.5	245.6
50°	4201.3	3584.4	1464.5	444.4	353.5	340.3	286.0	255.0	241.0	232.5	230.6
52.5°	4381.3	3657.5	1343.6	350.7	296.3	278.5	263.5	237.2	227.8	221.3	218.5
55°	4666.4	3799.1	1238.6	278.5	246.6	242.8	248.5	226.9	221.3	211.0	207.2
57.5°	4398.2	3412.8	962.0	215.6	208.1	222.2	240.0	216.6	202.5	193.1	189.4
60°	3095.0	2269.0	483.8	173.5	185.6	208.1	226.0	196.0	181.9	183.8	181.9
62.5°	1706.4	1135.4	217.5	145.3	161.3	183.8	193.1	169.7	160.3	176.3	179.1
65°	557.9	386.3	125.6	112.5	127.5	150.0	166.9	161.3	159.4	178.1	183.8
67.5°	171.6	127.5	85.3	80.6	88.1	110.6	140.6	174.4	187.5	193.1	196.0
70°	128.4	100.3	73.1	68.4	72.2	84.4	119.1	145.3	136.9	137.8	135.9
72.5°	103.1	79.7	62.8	60.0	60.0	58.1	62.8	78.8	89.1	93.8	93.8
75°	72.2	56.3	47.8	44.1	34.7	28.1	25.3	25.3	22.5	21.6	20.6
77.5°	24.4	20.6	18.8	15.0	10.3	8.4	7.5	6.6	4.7	2.8	1.9
80°	3.8	2.8	1.9	1.9	1.9	0.9	0.9	0.9	0.0	0.0	0.0
82.5°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.0	0.0	0.0	0.0
85°	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	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)