

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: P636023

Luminaire Tested: GWS-SA3E-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12825.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

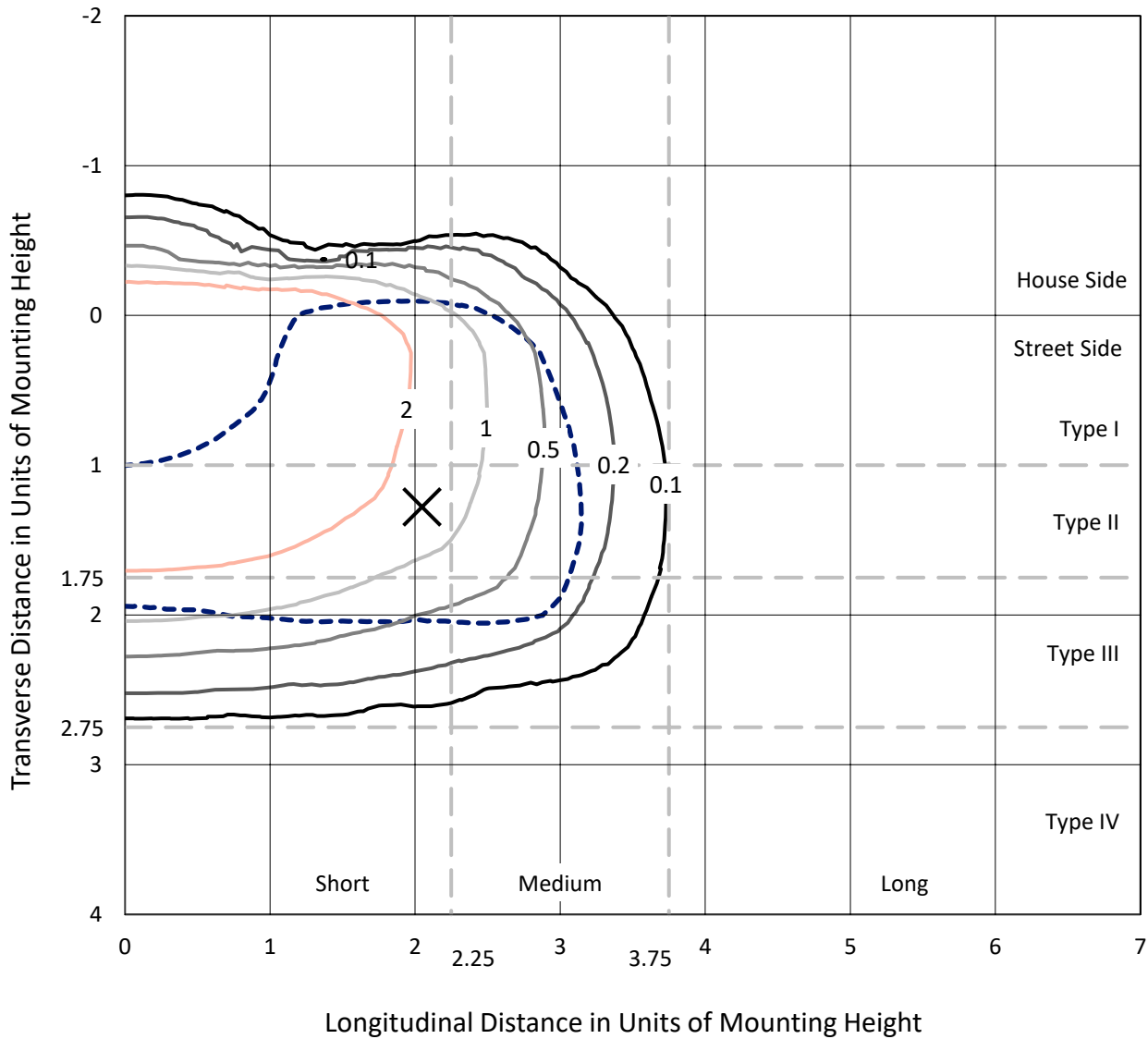
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

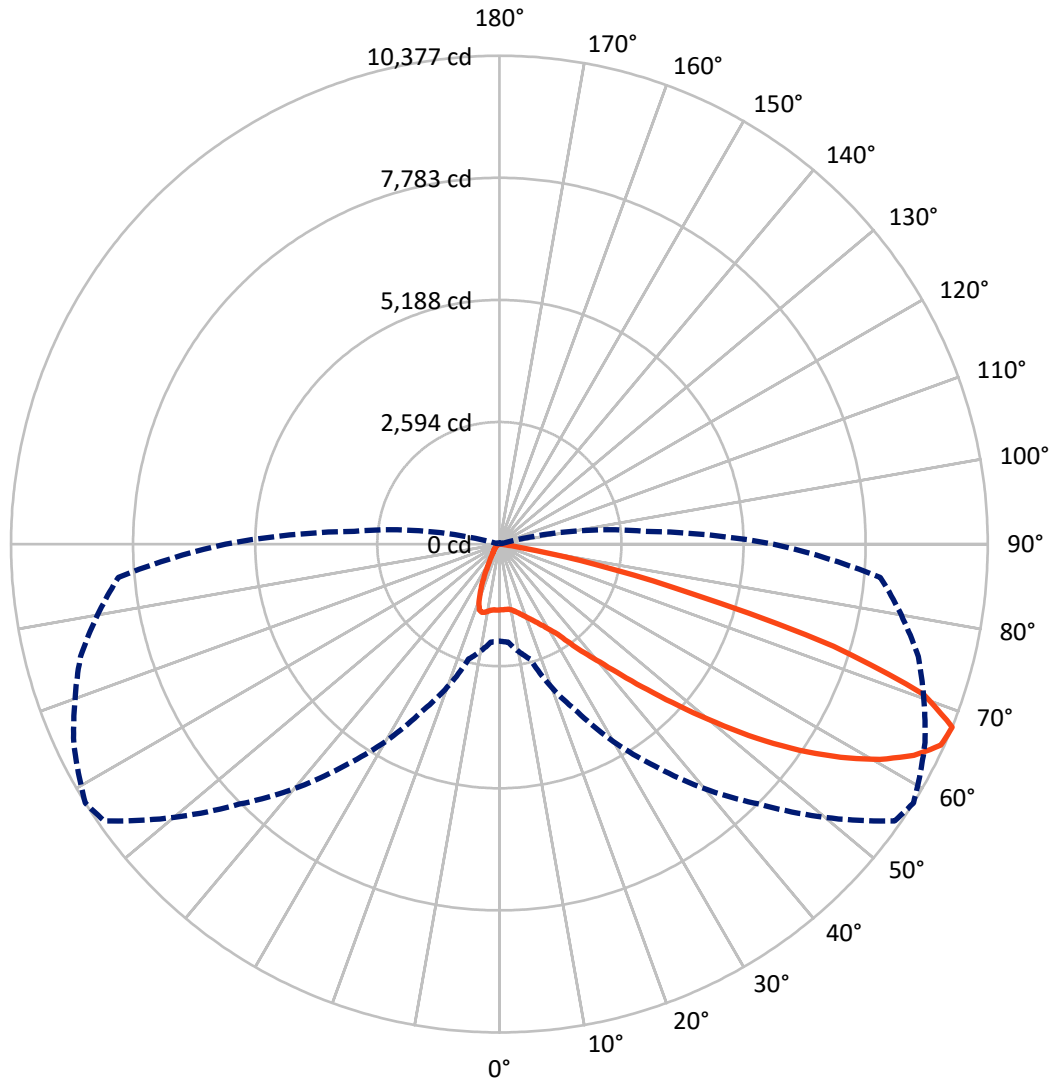
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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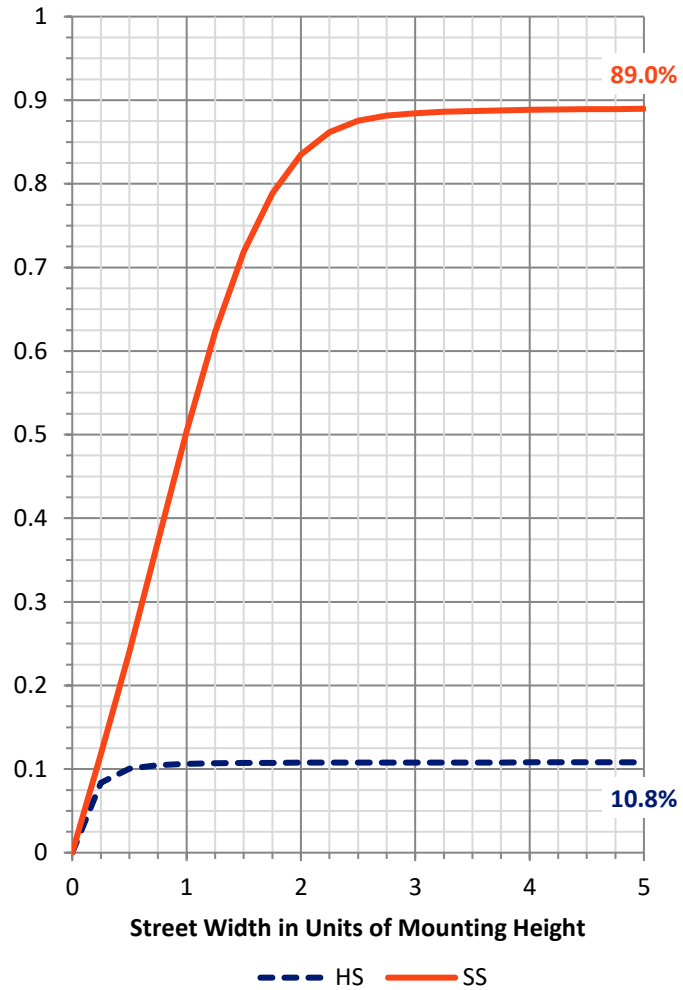
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1399.2	0.0	1399.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	11426.2	0.0	11426.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	12825.4	0.0	12825.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.0
10°-20°	368.6	2.9
20°-30°	643.4	5.0
30°-40°	1149.1	9.0
40°-50°	2100.3	16.4
50°-60°	3493.0	27.2
60°-70°	3794.0	29.6
70°-80°	1114.0	8.7
80°-90°	31.7	0.2
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°	12825.4	100.0
0°-180°	12825.4	100.0

Coefficient of Utilization



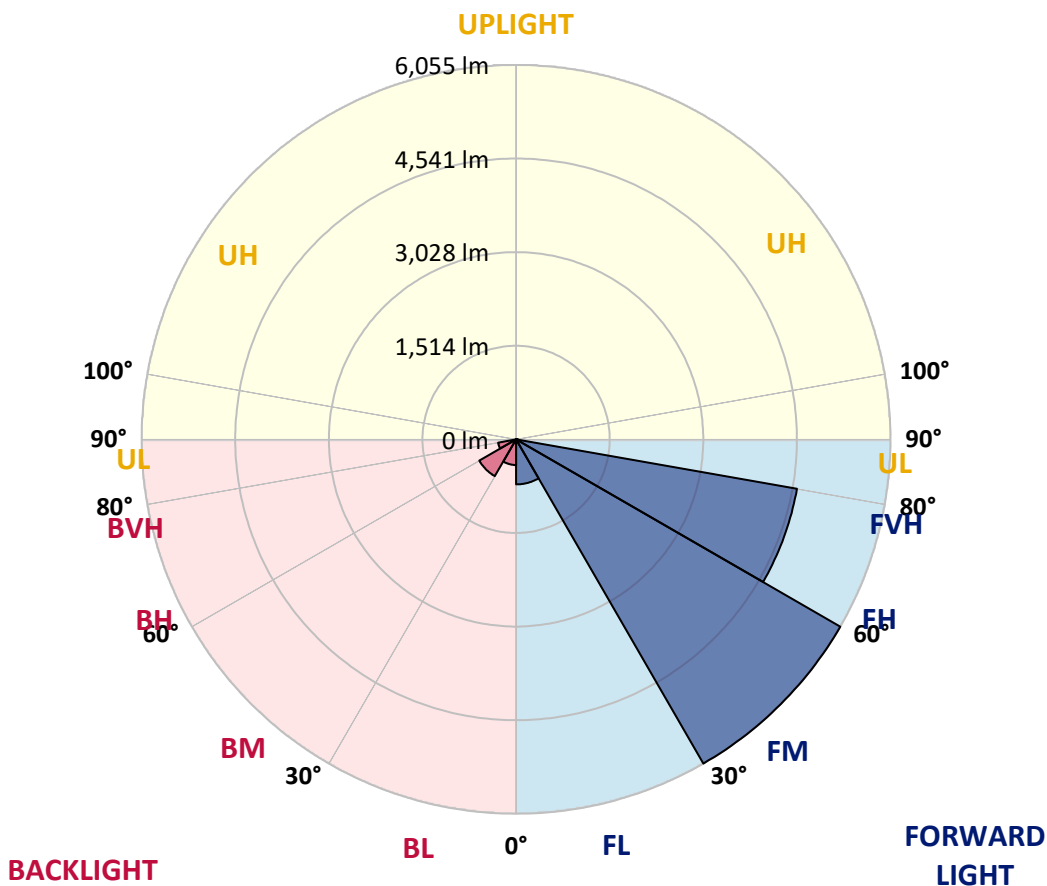
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	728.3	5.7			
FM (30°-60°)	6055.1	47.2			
FH (60°-80°)	4612.6	36.0			G2/5000
FVH (80°-90°)	30.2	0.2			G1/100
BL (0°-30°)	415.0	3.2	B1/500		
BM (30°-60°)	687.2	5.4	B1/1000		
BH (60°-80°)	295.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1371.3	1368.8	1368.8	1378.8	1380.1	1385.1	1396.3	1397.6	1403.8	1401.3	1392.6
5°	1299.9	1301.2	1308.7	1326.2	1341.2	1360.0	1387.6	1393.8	1407.6	1415.1	1410.1
7.5°	1233.5	1234.8	1246.1	1273.6	1302.4	1340.0	1385.1	1397.6	1425.1	1445.2	1446.4
10°	1208.5	1207.2	1218.5	1249.8	1287.4	1340.0	1405.1	1421.4	1462.7	1497.8	1504.0
12.5°	1216.0	1214.7	1226.0	1254.8	1296.1	1362.5	1440.2	1462.7	1515.3	1569.2	1580.4
15°	1246.1	1244.8	1252.3	1276.1	1321.2	1390.1	1485.2	1519.1	1585.4	1650.6	1668.1
17.5°	1336.2	1330.0	1322.4	1325.0	1351.2	1422.6	1542.9	1584.2	1666.8	1744.5	1759.5
20°	1496.5	1480.2	1460.2	1433.9	1421.4	1470.2	1609.2	1656.8	1757.0	1845.9	1848.4
22.5°	1738.2	1732.0	1685.6	1609.2	1555.4	1556.6	1686.9	1742.0	1864.7	1962.4	1948.6
25°	2075.1	2071.3	1999.9	1874.7	1734.5	1686.9	1785.8	1842.2	1992.4	2096.4	2052.5
27.5°	2493.4	2467.1	2383.2	2214.1	2005.0	1855.9	1911.0	1961.1	2127.7	2225.4	2142.7
30°	2857.8	2859.0	2780.1	2603.6	2368.1	2110.2	2063.8	2107.6	2251.7	2354.4	2254.2
32.5°	3208.4	3219.7	3133.3	2974.3	2716.3	2442.0	2283.0	2290.5	2410.7	2522.2	2400.7
35°	3534.0	3542.8	3482.7	3347.4	3107.0	2788.9	2588.5	2584.8	2649.9	2763.9	2604.8
37.5°	3898.5	3907.2	3848.4	3726.9	3501.5	3185.9	2935.4	2930.4	2956.7	3049.4	2867.8
40°	4286.7	4303.0	4237.8	4135.1	3919.8	3653.0	3338.7	3293.6	3267.3	3376.2	3208.4
42.5°	4679.9	4705.0	4682.4	4579.7	4395.6	4175.2	3862.1	3792.0	3735.7	3872.2	3694.3
45°	5168.3	5198.4	5188.3	5109.5	4966.7	4787.6	4492.1	4410.7	4384.4	4510.8	4299.2
47.5°	5637.9	5670.5	5706.8	5689.3	5587.8	5505.2	5177.1	5130.7	5123.2	5258.5	4930.4
50°	5987.3	6017.4	6156.4	6256.6	6325.5	6307.9	6023.6	5954.8	5943.5	6029.9	5596.6
52.5°	6237.8	6266.6	6458.2	6771.3	7024.2	7162.0	6875.2	6860.2	6798.8	6768.8	6220.3
55°	6431.9	6472.0	6673.6	7147.0	7656.7	7962.2	7783.1	7729.3	7571.5	7398.7	6798.8
57.5°	6470.7	6487.0	6771.3	7410.0	8147.6	8642.2	8642.2	8548.3	8244.0	8004.8	7467.6
60°	6122.6	6172.7	6557.1	7388.7	8358.0	9086.8	9354.8	9289.7	8878.9	8584.6	8111.3
62.5°	5349.9	5406.3	5874.6	6879.0	8147.6	9178.2	9894.6	9884.5	9421.2	9064.3	8644.7
65°	4102.6	4143.9	4552.2	5754.4	7258.4	8826.3	10280.3	10307.8	9849.5	9381.1	8828.8
67.5°	2061.3	2090.1	2530.9	3931.0	5753.1	7813.2	10254.0	10376.7	9979.7	9213.3	8126.3
70°	720.1	748.9	956.8	1686.9	3501.5	5966.0	9367.3	9567.7	9214.5	7864.5	5994.8
72.5°	246.7	260.5	397.0	626.2	1362.5	3536.5	7123.2	7425.0	6792.6	5279.8	3445.1
75°	140.3	149.0	212.9	339.4	571.1	1163.4	4041.2	4226.6	3959.8	2877.8	1417.6
77.5°	95.2	102.7	132.7	192.9	315.6	374.4	1648.0	2075.1	1809.6	939.2	361.9
80°	56.4	61.4	81.4	114.0	161.5	145.3	353.2	469.6	604.9	280.5	109.0
82.5°	26.3	30.1	52.6	75.1	81.4	61.4	103.9	126.5	170.3	137.8	45.1
85°	0.0	0.0	17.5	31.3	30.1	17.5	28.8	31.3	46.3	68.9	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	2.5	3.8	7.5	13.8	7.5
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°	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6	1397.6
2.5°	1402.6	1393.8	1403.8	1398.8	1403.8	1402.6	1392.6	1386.3	1386.3	1375.0	1371.3
5°	1420.1	1411.4	1413.9	1402.6	1400.1	1393.8	1381.3	1376.3	1376.3	1365.0	1361.3
7.5°	1458.9	1445.2	1442.7	1420.1	1410.1	1392.6	1370.0	1361.3	1360.0	1348.7	1345.0
10°	1520.3	1504.0	1492.8	1464.0	1435.2	1400.1	1352.5	1312.4	1289.9	1259.8	1257.3
12.5°	1595.5	1575.4	1557.9	1514.1	1466.5	1387.6	1247.3	1100.8	1010.6	939.2	944.2
15°	1679.4	1660.6	1633.0	1566.6	1469.0	1263.6	970.5	745.1	634.9	576.1	573.6
17.5°	1770.8	1743.2	1698.1	1608.0	1390.1	965.5	631.2	445.8	388.2	368.2	363.2
20°	1855.9	1822.1	1765.8	1616.7	1162.1	653.7	394.5	345.6	335.6	329.4	329.4
22.5°	1946.1	1903.5	1819.6	1549.1	864.1	418.3	335.6	324.4	316.8	308.1	306.8
25°	2037.5	1982.4	1868.5	1372.5	566.0	329.4	314.3	301.8	288.0	274.3	270.5
27.5°	2115.2	2043.8	1906.0	1109.6	363.2	296.8	286.8	265.5	246.7	231.7	229.2
30°	2207.8	2116.4	1922.3	811.5	285.5	261.7	246.7	224.2	201.6	186.6	181.6
32.5°	2331.8	2231.6	1897.3	528.5	253.0	230.4	206.6	180.3	157.8	141.5	139.0
35°	2524.7	2405.7	1782.0	336.9	229.2	199.1	170.3	142.8	124.0	111.5	109.0
37.5°	2760.1	2649.9	1592.9	253.0	205.4	172.8	139.0	112.7	98.9	90.2	87.7
40°	3109.5	2955.5	1358.8	221.7	181.6	146.5	114.0	92.7	82.7	75.1	72.6
42.5°	3562.8	3316.1	1089.5	201.6	159.0	122.7	92.7	76.4	67.6	62.6	61.4
45°	4092.6	3668.0	805.2	181.6	137.8	101.4	76.4	62.6	56.4	52.6	51.3
47.5°	4634.8	3976.1	556.0	160.3	117.7	83.9	63.9	53.8	48.8	43.8	42.6
50°	5213.4	4236.6	379.5	139.0	100.2	68.9	55.1	48.8	42.6	38.8	37.6
52.5°	5637.9	4333.0	264.2	120.2	85.2	58.9	48.8	43.8	38.8	33.8	32.6
55°	6029.9	4330.5	200.4	101.4	72.6	51.3	43.8	38.8	33.8	30.1	28.8
57.5°	6420.6	4296.7	157.8	86.4	62.6	46.3	38.8	33.8	31.3	26.3	25.0
60°	6673.6	4169.0	122.7	72.6	53.8	40.1	33.8	30.1	26.3	22.5	21.3
62.5°	6807.6	3991.1	93.9	57.6	43.8	35.1	30.1	26.3	22.5	18.8	17.5
65°	6626.0	3675.5	73.9	45.1	33.8	30.1	25.0	21.3	17.5	13.8	12.5
67.5°	5820.8	3099.5	57.6	36.3	26.3	22.5	21.3	17.5	12.5	10.0	8.8
70°	4113.9	2122.7	45.1	27.6	20.0	17.5	16.3	13.8	10.0	7.5	6.3
72.5°	2257.9	1070.7	32.6	20.0	15.0	13.8	12.5	11.3	8.8	6.3	6.3
75°	869.1	294.3	23.8	13.8	10.0	10.0	8.8	8.8	7.5	5.0	5.0
77.5°	226.7	87.7	15.0	8.8	6.3	6.3	6.3	5.0	5.0	3.8	3.8
80°	72.6	28.8	8.8	6.3	5.0	3.8	3.8	2.5	3.8	2.5	2.5
82.5°	23.8	10.0	5.0	5.0	3.8	2.5	2.5	1.3	1.3	0.0	0.0
85°	8.8	5.0	3.8	2.5	2.5	2.5	1.3	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	2.5	2.5	1.3	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)