

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: P641963

Luminaire Tested: GWS-SA6B-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641963
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-SA6B-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12347.8 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

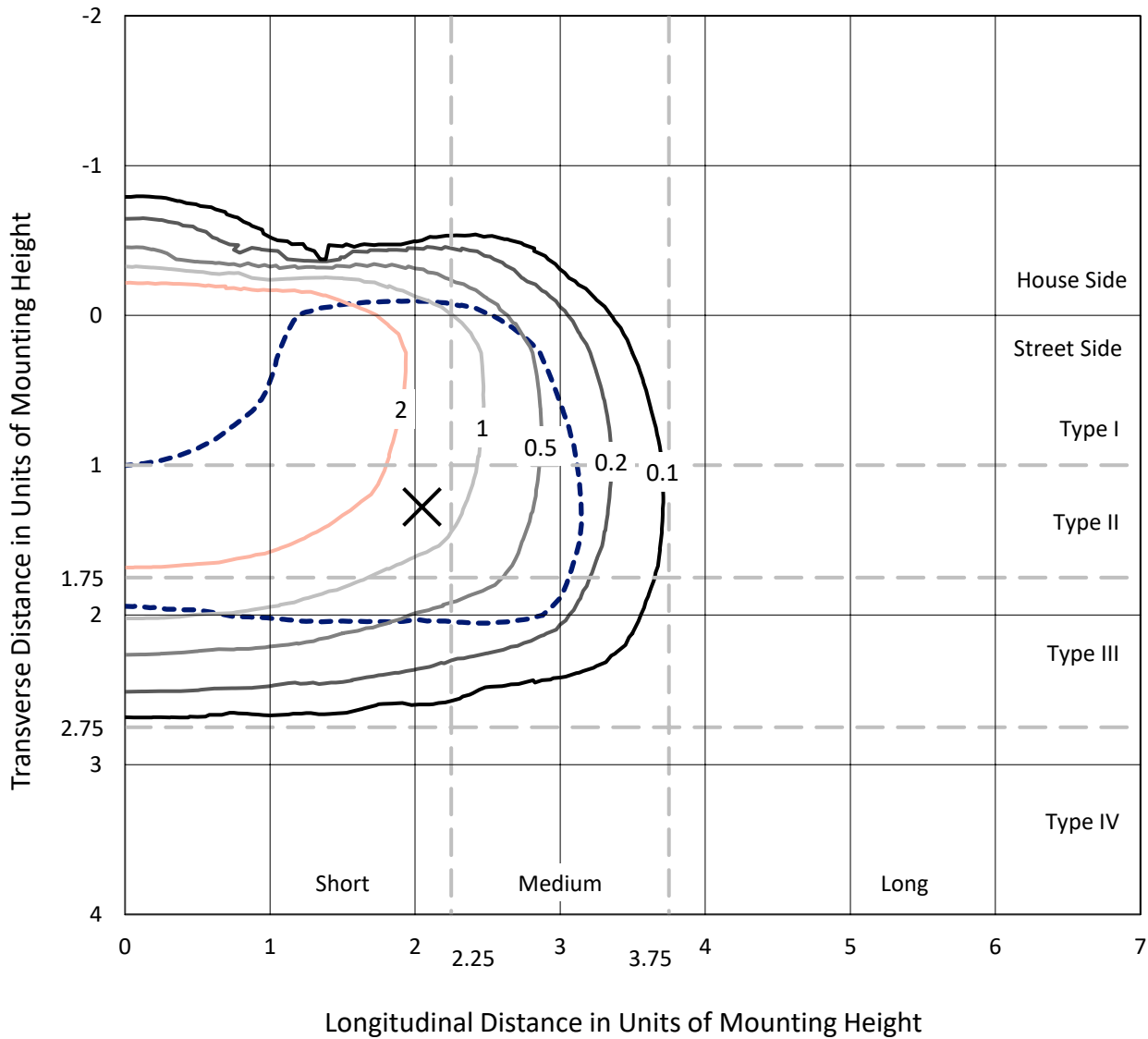
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641963
 CATALOG NUMBER: GWS-SA6B-830-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

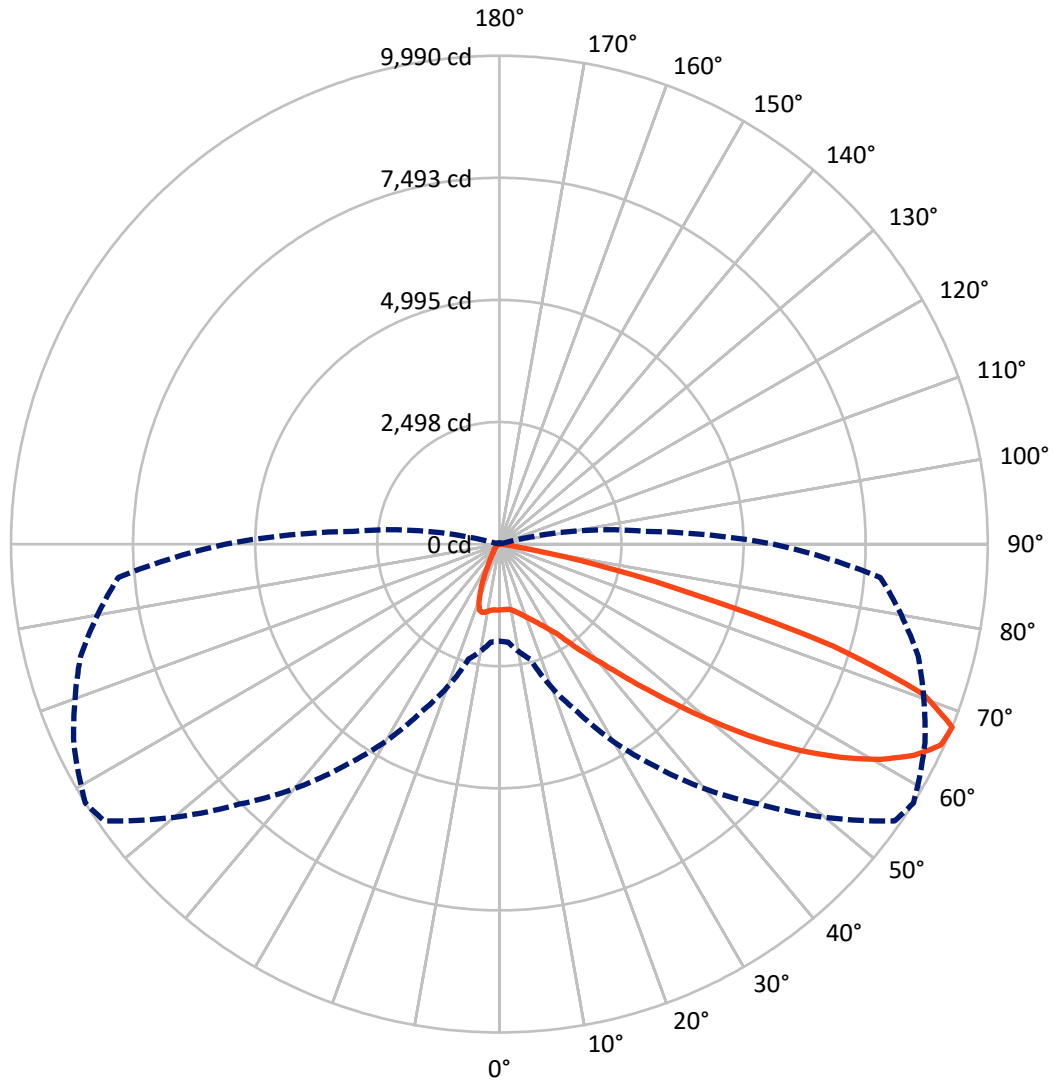
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P641963
CATALOG NUMBER: GWS-SA6B-830-U-T3-W-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GWS-SA6B-830-U-T3-W-HSS

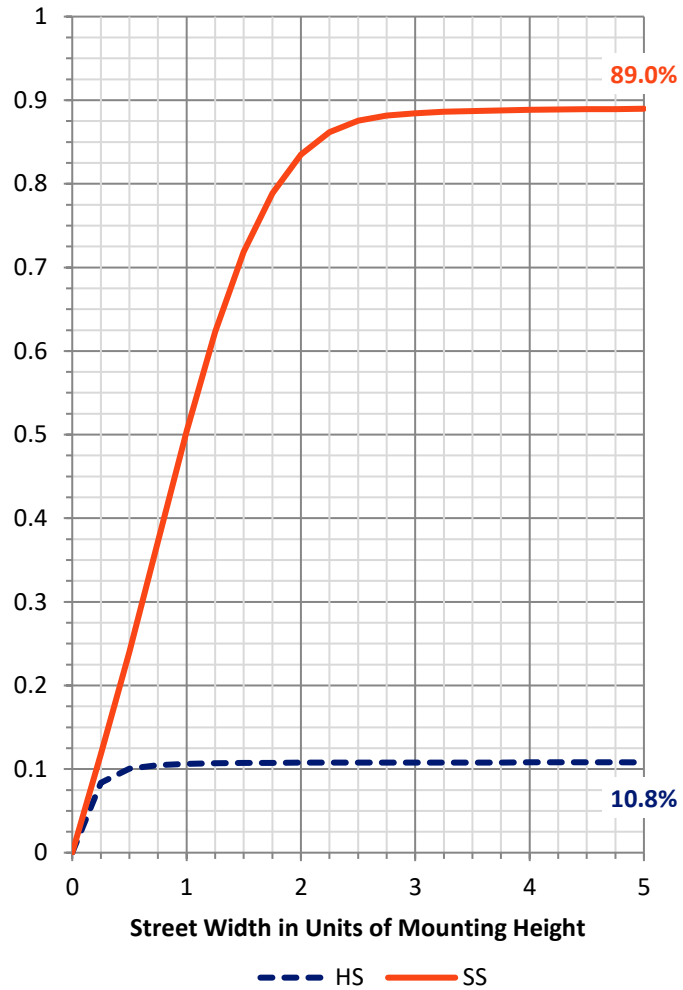
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.1	0.0	1347.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	11000.7	0.0	11000.7
	% Fixture	89.1	0.0	89.1
Total	Lumens	12347.8	0.0	12347.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	1.0
10°-20°	354.9	2.9
20°-30°	619.5	5.0
30°-40°	1106.3	9.0
40°-50°	2022.1	16.4
50°-60°	3362.9	27.2
60°-70°	3652.7	29.6
70°-80°	1072.5	8.7
80°-90°	30.5	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°	12347.8	100.0
0°-180°	12347.8	100.0

Coefficient of Utilization



REPORT NUMBER: P641963

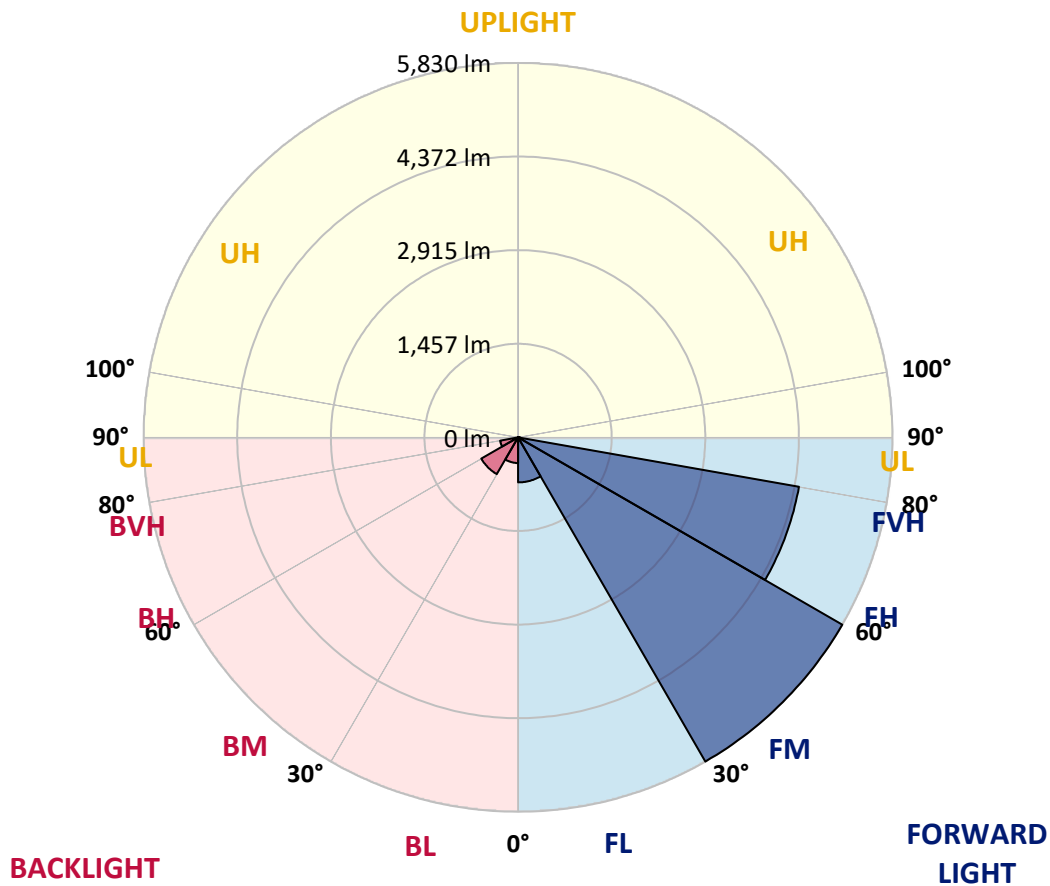
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.2	5.7			
FM (30°-60°)	5829.6	47.2			
FH (60°-80°)	4440.8	36.0			G2/5000
FVH (80°-90°)	29.0	0.2			G1/100
BL (0°-30°)	399.6	3.2	B1/500		
BM (30°-60°)	661.6	5.4	B1/1000		
BH (60°-80°)	284.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P641963

CATALOG NUMBER: GWS-SA6B-830-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5
2.5°	1320.2	1317.8	1317.8	1327.5	1328.7	1333.5	1344.3	1345.5	1351.6	1349.2	1340.7
5°	1251.5	1252.7	1259.9	1276.8	1291.3	1309.4	1335.9	1341.9	1355.2	1362.4	1357.6
7.5°	1187.6	1188.8	1199.7	1226.2	1253.9	1290.1	1333.5	1345.5	1372.1	1391.4	1392.6
10°	1163.5	1162.3	1173.1	1203.3	1239.4	1290.1	1352.8	1368.4	1408.2	1442.0	1448.0
12.5°	1170.7	1169.5	1180.4	1208.1	1247.9	1311.8	1386.5	1408.2	1458.9	1510.7	1521.6
15°	1199.7	1198.4	1205.7	1228.6	1272.0	1338.3	1429.9	1462.5	1526.4	1589.1	1606.0
17.5°	1286.5	1280.4	1273.2	1275.6	1300.9	1369.7	1485.4	1525.2	1604.8	1679.5	1694.0
20°	1440.8	1425.1	1405.8	1380.5	1368.4	1415.5	1549.3	1595.1	1691.6	1777.2	1779.6
22.5°	1673.5	1667.5	1622.8	1549.3	1497.5	1498.7	1624.1	1677.1	1795.3	1889.3	1876.0
25°	1997.8	1994.2	1925.5	1804.9	1669.9	1624.1	1719.3	1773.6	1918.2	2018.3	1976.1
27.5°	2400.5	2375.2	2294.4	2131.6	1930.3	1786.8	1839.9	1888.1	2048.5	2142.5	2062.9
30°	2751.4	2752.6	2676.6	2506.6	2279.9	2031.6	1987.0	2029.2	2167.8	2266.7	2170.2
32.5°	3089.0	3099.8	3016.6	2863.5	2615.1	2351.1	2198.0	2205.2	2320.9	2428.2	2311.3
35°	3402.4	3410.9	3353.0	3222.8	2991.3	2685.1	2492.1	2488.5	2551.2	2660.9	2507.8
37.5°	3753.3	3761.7	3705.1	3588.1	3371.1	3067.3	2826.1	2821.3	2846.6	2935.8	2761.0
40°	4127.1	4142.7	4080.0	3981.2	3773.8	3517.0	3214.3	3170.9	3145.6	3250.5	3089.0
42.5°	4505.6	4529.7	4508.0	4409.2	4231.9	4019.7	3718.3	3650.8	3596.5	3728.0	3556.8
45°	4975.9	5004.8	4995.1	4919.2	4781.7	4609.3	4324.8	4246.4	4221.1	4342.9	4139.1
47.5°	5428.0	5459.3	5494.3	5477.4	5379.8	5300.2	4984.3	4939.7	4932.4	5062.7	4746.8
50°	5764.4	5793.3	5927.1	6023.6	6089.9	6073.0	5799.3	5733.0	5722.2	5805.4	5388.2
52.5°	6005.5	6033.2	6217.7	6519.1	6762.7	6895.3	6619.2	6604.7	6545.6	6516.7	5988.6
55°	6192.4	6231.0	6425.1	6880.8	7371.5	7665.7	7493.3	7441.5	7289.6	7123.2	6545.6
57.5°	6229.8	6245.4	6519.1	7134.0	7844.2	8320.4	8320.4	8230.0	7937.0	7706.7	7189.5
60°	5894.6	5942.8	6313.0	7113.5	8046.7	8748.4	9006.4	8943.8	8548.3	8265.0	7809.2
62.5°	5150.7	5204.9	5655.9	6622.8	7844.2	8836.4	9526.1	9516.4	9070.3	8726.7	8322.8
65°	3949.8	3989.6	4382.7	5540.1	6988.1	8497.6	9897.4	9924.0	9482.7	9031.8	8500.1
67.5°	1984.6	2012.3	2436.7	3784.6	5538.9	7522.3	9872.1	9990.3	9608.1	8870.2	7823.7
70°	693.3	721.0	921.1	1624.1	3371.1	5743.9	9018.5	9211.4	8871.4	7571.7	5771.6
72.5°	237.5	250.8	382.2	602.8	1311.8	3404.8	6857.9	7148.5	6539.6	5083.2	3316.8
75°	135.0	143.5	205.0	326.7	549.8	1120.1	3890.7	4069.2	3812.4	2770.7	1364.8
77.5°	91.6	98.9	127.8	185.7	303.8	360.5	1586.7	1997.8	1742.2	904.3	348.4
80°	54.3	59.1	78.4	109.7	155.5	139.9	340.0	452.1	582.3	270.1	104.9
82.5°	25.3	28.9	50.6	72.3	78.4	59.1	100.1	121.8	164.0	132.6	43.4
85°	0.0	0.0	16.9	30.1	28.9	16.9	27.7	30.1	44.6	66.3	16.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	2.4	3.6	7.2	13.3	7.2
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°	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5	1345.5
2.5°	1350.4	1341.9	1351.6	1346.7	1351.6	1350.4	1340.7	1334.7	1334.7	1323.8	1320.2
5°	1367.2	1358.8	1361.2	1350.4	1348.0	1341.9	1329.9	1325.0	1325.0	1314.2	1310.6
7.5°	1404.6	1391.4	1388.9	1367.2	1357.6	1340.7	1319.0	1310.6	1309.4	1298.5	1294.9
10°	1463.7	1448.0	1437.2	1409.4	1381.7	1348.0	1302.1	1263.6	1241.9	1212.9	1210.5
12.5°	1536.0	1516.7	1499.9	1457.7	1411.9	1335.9	1200.9	1059.8	973.0	904.3	909.1
15°	1616.8	1598.7	1572.2	1508.3	1414.3	1216.5	934.4	717.4	611.3	554.6	552.2
17.5°	1704.8	1678.3	1634.9	1548.1	1338.3	929.6	607.7	429.2	373.8	354.5	349.6
20°	1786.8	1754.3	1700.0	1556.5	1118.9	629.4	379.8	332.8	323.1	317.1	317.1
22.5°	1873.6	1832.6	1751.9	1491.4	831.9	402.7	323.1	312.3	305.0	296.6	295.4
25°	1961.6	1908.6	1798.9	1321.4	545.0	317.1	302.6	290.6	277.3	264.0	260.4
27.5°	2036.4	1967.7	1835.0	1068.2	349.6	285.7	276.1	255.6	237.5	223.1	220.6
30°	2125.6	2037.6	1850.7	781.3	274.9	252.0	237.5	215.8	194.1	179.6	174.8
32.5°	2245.0	2148.5	1826.6	508.8	243.5	221.8	198.9	173.6	151.9	136.2	133.8
35°	2430.7	2316.1	1715.7	324.3	220.6	191.7	164.0	137.4	119.4	107.3	104.9
37.5°	2657.3	2551.2	1533.6	243.5	197.7	166.4	133.8	108.5	95.2	86.8	84.4
40°	2993.7	2845.4	1308.2	213.4	174.8	141.1	109.7	89.2	79.6	72.3	69.9
42.5°	3430.2	3192.6	1048.9	194.1	153.1	118.2	89.2	73.5	65.1	60.3	59.1
45°	3940.2	3531.4	775.3	174.8	132.6	97.7	73.5	60.3	54.3	50.6	49.4
47.5°	4462.2	3828.0	535.3	154.3	113.3	80.8	61.5	51.8	47.0	42.2	41.0
50°	5019.3	4078.8	365.3	133.8	96.5	66.3	53.1	47.0	41.0	37.4	36.2
52.5°	5428.0	4171.7	254.4	115.7	82.0	56.7	47.0	42.2	37.4	32.6	31.3
55°	5805.4	4169.2	192.9	97.7	69.9	49.4	42.2	37.4	32.6	28.9	27.7
57.5°	6181.5	4136.7	151.9	83.2	60.3	44.6	37.4	32.6	30.1	25.3	24.1
60°	6425.1	4013.7	118.2	69.9	51.8	38.6	32.6	28.9	25.3	21.7	20.5
62.5°	6554.1	3842.5	90.4	55.5	42.2	33.8	28.9	25.3	21.7	18.1	16.9
65°	6379.3	3538.7	71.1	43.4	32.6	28.9	24.1	20.5	16.9	13.3	12.1
67.5°	5604.0	2984.1	55.5	35.0	25.3	21.7	20.5	16.9	12.1	9.6	8.4
70°	3960.7	2043.6	43.4	26.5	19.3	16.9	15.7	13.3	9.6	7.2	6.0
72.5°	2173.8	1030.9	31.3	19.3	14.5	13.3	12.1	10.9	8.4	6.0	6.0
75°	836.7	283.3	22.9	13.3	9.6	9.6	8.4	8.4	7.2	4.8	4.8
77.5°	218.2	84.4	14.5	8.4	6.0	6.0	6.0	4.8	4.8	3.6	3.6
80°	69.9	27.7	8.4	6.0	4.8	3.6	3.6	2.4	3.6	2.4	2.4
82.5°	22.9	9.6	4.8	4.8	3.6	2.4	2.4	1.2	1.2	0.0	0.0
85°	8.4	4.8	3.6	2.4	2.4	2.4	1.2	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	2.4	1.2	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)