

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: P633527

Luminaire Tested: GWS-SA2E-830-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9132.7 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

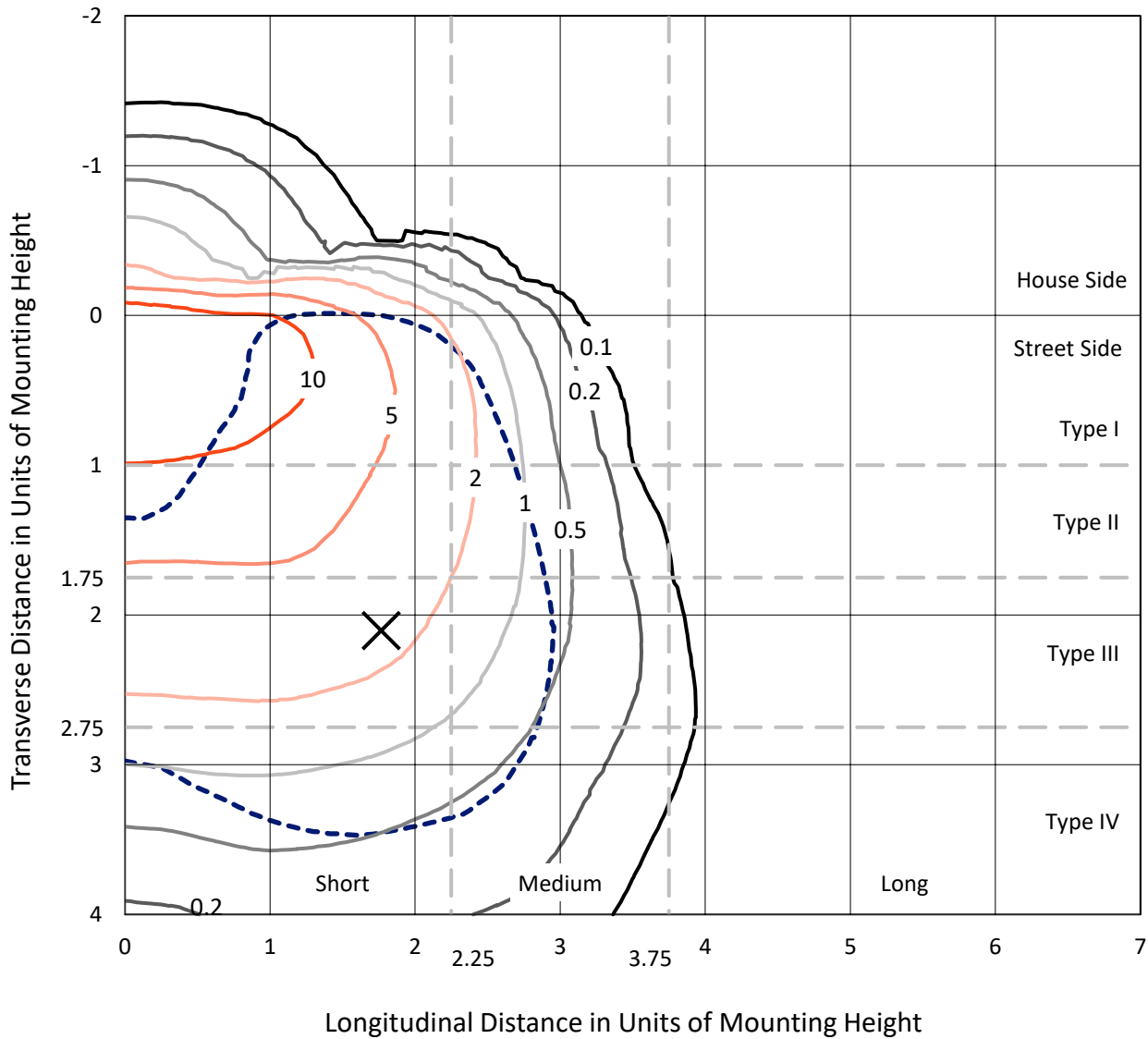
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

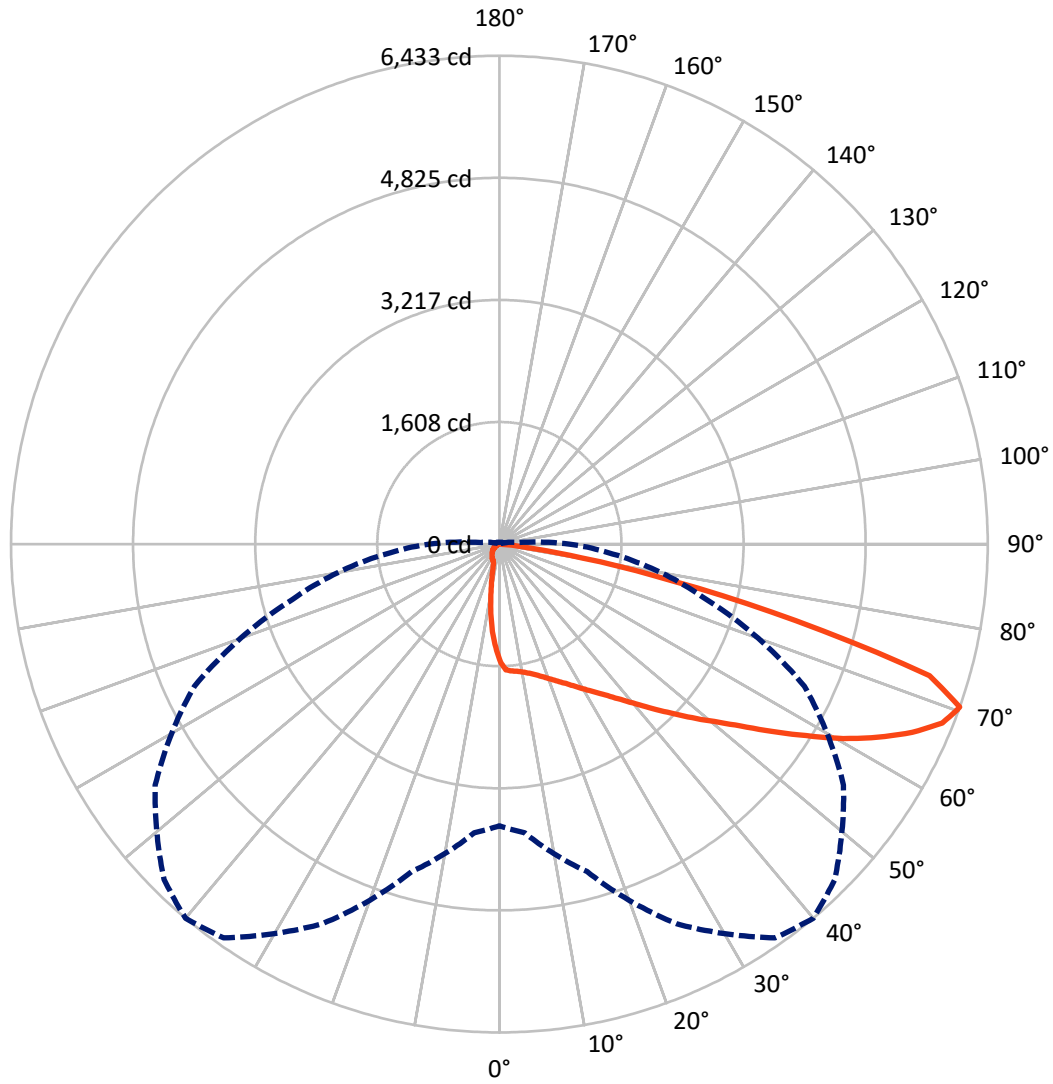
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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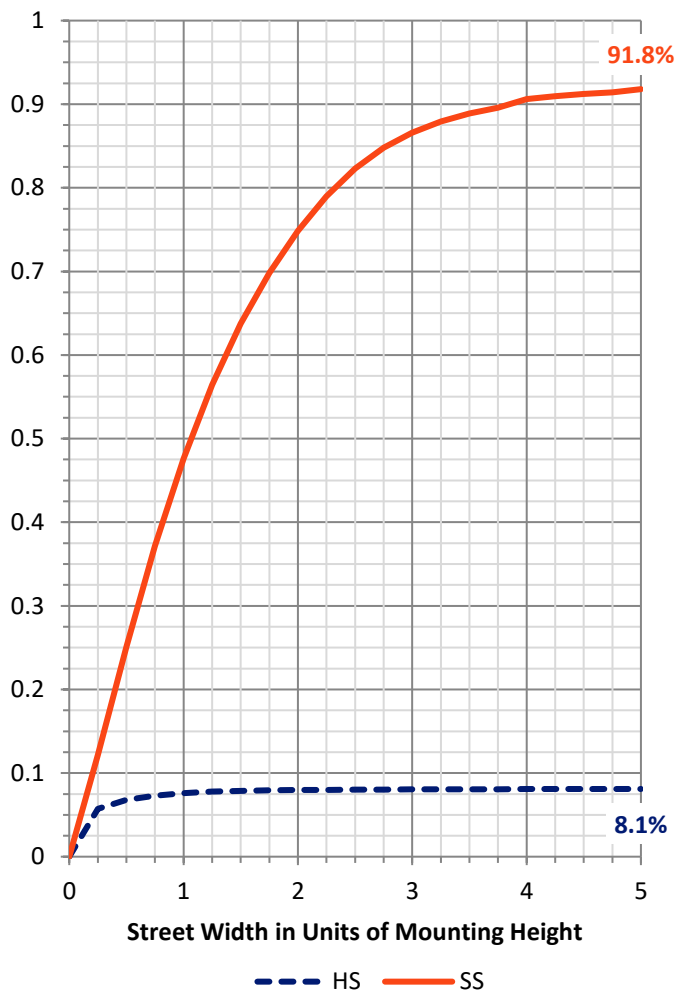
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	746.8	0.0	746.8
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	8385.9	0.0	8385.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	9132.7	0.0	9132.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	1.4
10°-20°	332.2	3.6
20°-30°	556.0	6.1
30°-40°	873.3	9.6
40°-50°	1381.3	15.1
50°-60°	2014.9	22.1
60°-70°	2497.8	27.4
70°-80°	1263.7	13.8
80°-90°	82.5	0.9
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°	9132.7	100.0
0°-180°	9132.7	100.0

Coefficient of Utilization



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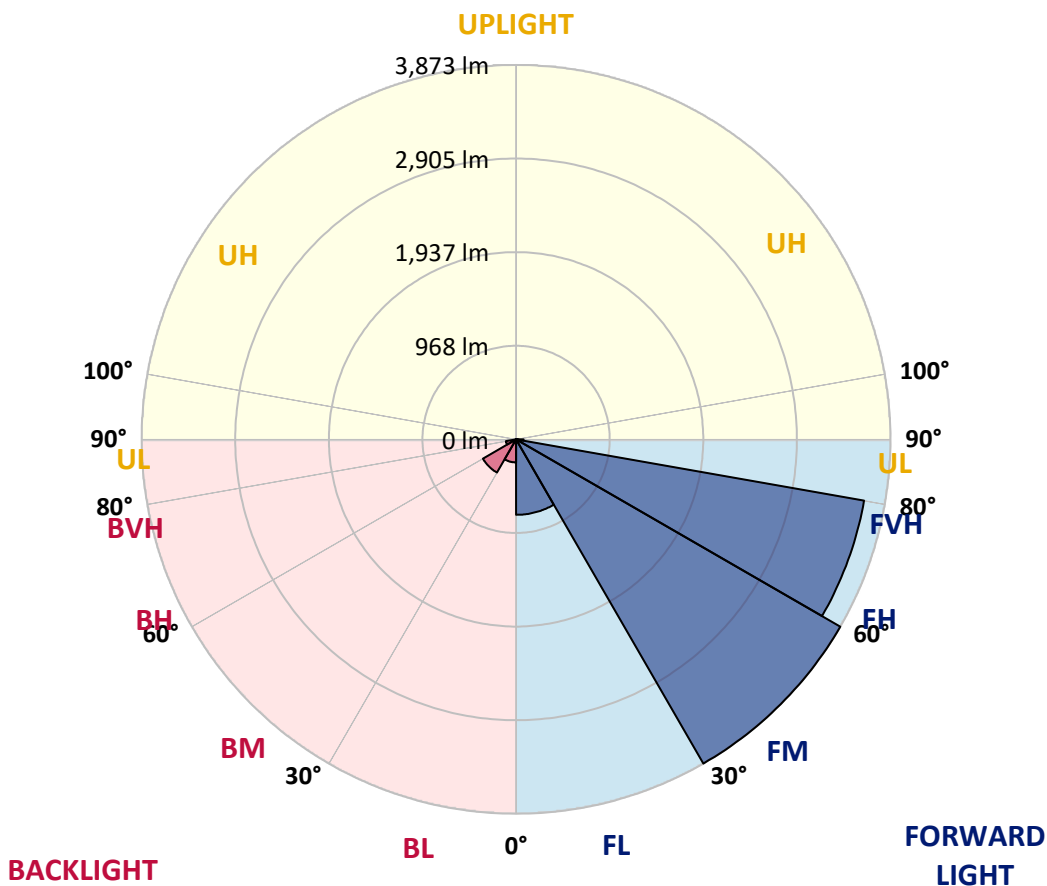
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.7	8.5			
FM (30°-60°)	3873.1	42.4			
FH (60°-80°)	3655.1	40.0			G2/5000
FVH (80°-90°)	77.1	0.8			G1/100
BL (0°-30°)	238.5	2.6	B1/500		
BM (30°-60°)	396.4	4.3	B1/1000		
BH (60°-80°)	106.5	1.2	B0/110		G0/110
BVH (80°-90°)	5.4	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1666.0	1671.9	1671.0	1673.5	1667.7	1658.6	1656.9	1644.4	1622.0	1593.7	1562.2
5°	1700.1	1706.8	1701.8	1699.3	1688.5	1678.5	1676.0	1662.7	1637.0	1598.7	1543.9
7.5°	1729.2	1730.9	1727.5	1721.7	1705.9	1692.6	1683.5	1665.2	1634.5	1596.2	1533.1
10°	1734.2	1733.3	1735.0	1735.8	1725.9	1714.2	1706.8	1681.8	1642.8	1602.1	1533.9
12.5°	1728.4	1728.4	1739.2	1751.6	1751.6	1745.8	1738.3	1715.9	1670.2	1622.0	1550.5
15°	1735.8	1738.3	1759.1	1782.4	1789.9	1784.0	1780.7	1757.4	1710.1	1656.9	1580.5
17.5°	1762.4	1764.9	1798.2	1833.1	1842.2	1835.6	1828.9	1805.6	1755.0	1696.8	1614.5
20°	1801.5	1808.1	1850.5	1895.4	1903.7	1895.4	1882.1	1849.7	1799.0	1740.0	1646.9
22.5°	1872.9	1877.1	1922.8	1970.2	1974.3	1961.0	1941.1	1896.2	1843.0	1785.7	1683.5
25°	1967.7	1973.5	2019.2	2064.9	2054.1	2034.1	2006.7	1956.0	1895.4	1839.7	1730.0
27.5°	2080.7	2087.3	2132.2	2172.1	2143.8	2120.6	2089.8	2026.7	1965.2	1914.5	1789.9
30°	2202.8	2208.6	2248.5	2284.3	2246.9	2219.5	2182.9	2118.1	2055.8	2017.5	1874.6
32.5°	2320.8	2320.0	2358.2	2387.3	2349.1	2327.5	2294.2	2228.6	2178.7	2162.1	2000.9
35°	2430.5	2430.5	2462.1	2491.2	2463.7	2452.1	2421.4	2369.0	2340.8	2360.7	2169.6
37.5°	2541.0	2535.2	2565.1	2597.5	2595.0	2595.9	2578.4	2553.5	2555.2	2625.8	2401.4
40°	2632.4	2629.9	2664.8	2707.2	2740.5	2767.0	2756.2	2765.4	2817.7	2949.8	2698.1
42.5°	2705.6	2711.4	2756.2	2823.5	2907.5	2961.5	2969.0	3006.4	3141.0	3345.4	3032.9
45°	2789.5	2790.3	2852.6	2955.7	3089.4	3175.0	3204.9	3301.3	3492.5	3755.9	3400.2
47.5°	2892.5	2882.5	2952.3	3096.9	3290.5	3416.8	3470.0	3590.5	3886.3	4156.4	3699.4
50°	3006.4	2988.1	3067.0	3263.9	3515.7	3673.6	3781.6	3957.8	4276.9	4485.4	3922.1
52.5°	3138.5	3121.0	3210.8	3455.9	3785.8	3977.7	4116.5	4294.3	4611.7	4736.4	4055.0
55°	3306.3	3288.9	3383.6	3686.1	4104.9	4354.1	4499.6	4649.1	4923.3	4921.7	4151.4
57.5°	3492.5	3468.4	3599.6	3976.9	4502.9	4762.1	4910.0	4983.2	5160.2	5065.4	4216.2
60°	3706.0	3684.4	3866.4	4323.4	4962.4	5202.5	5295.6	5265.7	5354.6	5150.2	4193.8
62.5°	3898.8	3888.8	4114.8	4690.7	5400.3	5603.1	5628.8	5498.4	5497.5	5151.8	4042.5
65°	4099.0	4118.2	4453.9	5113.6	5840.7	5977.0	5932.9	5729.4	5554.9	4948.3	3595.5
67.5°	4173.8	4229.5	4677.4	5495.9	6188.0	6294.4	6217.1	5844.9	5316.4	4263.6	2738.0
70°	3711.8	3816.5	4466.3	5517.5	6331.8	6433.2	6247.9	5534.1	4432.3	2824.4	1499.9
72.5°	2822.7	2944.9	3721.8	4517.8	5694.5	5925.5	5608.9	4508.7	2856.8	1237.3	503.6
75°	1579.6	1711.7	2772.0	3401.9	3823.2	4034.2	3917.9	2892.5	1265.5	323.2	150.4
77.5°	534.3	578.3	1289.6	2104.8	2523.6	2334.1	1976.0	1436.7	465.3	123.0	79.8
80°	316.6	333.2	480.3	1047.8	1327.8	1101.0	869.2	531.0	236.8	65.6	55.7
82.5°	94.7	112.2	265.1	388.9	520.2	324.1	274.2	303.3	123.0	35.7	46.5
85°	0.0	0.0	56.5	120.5	136.3	53.2	53.2	172.0	22.4	15.0	34.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.2	2.5	3.3	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°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1539.7	1510.7	1476.6	1444.2	1413.4	1373.5	1354.4	1331.2	1311.2	1300.4	1306.2
5°	1509.0	1463.3	1393.5	1322.9	1251.4	1184.1	1123.4	1082.7	1046.2	1027.0	1031.2
7.5°	1482.4	1420.9	1312.1	1196.6	1081.9	966.4	872.5	799.4	742.9	719.6	715.4
10°	1470.8	1393.5	1239.8	1073.6	897.4	742.0	609.1	528.5	471.1	442.9	447.9
12.5°	1476.6	1379.4	1178.3	953.1	724.6	543.4	416.3	340.7	300.0	283.4	279.2
15°	1493.2	1376.0	1123.4	830.1	559.2	379.7	287.5	256.8	248.5	246.8	246.8
17.5°	1512.3	1376.9	1066.9	705.5	424.6	281.7	246.0	240.1	237.6	236.0	236.8
20°	1531.4	1376.9	1002.1	579.2	319.1	243.5	234.3	230.2	227.7	226.8	226.8
22.5°	1554.7	1376.9	929.8	462.0	255.9	231.0	223.5	221.0	218.5	217.7	216.9
25°	1582.9	1377.7	850.1	361.5	232.7	220.2	214.4	211.9	209.4	207.7	207.7
27.5°	1623.7	1384.4	762.0	281.7	219.4	210.2	205.2	202.8	200.3	197.8	197.8
30°	1682.7	1401.0	663.1	232.7	206.9	199.4	194.4	192.8	190.3	187.8	187.0
32.5°	1770.7	1430.1	560.9	208.6	195.3	187.8	182.0	180.3	177.8	175.3	174.5
35°	1893.7	1483.2	461.2	193.6	180.3	172.8	169.5	168.7	165.4	162.9	162.9
37.5°	2074.0	1569.7	365.6	178.7	167.9	162.0	157.9	156.2	152.9	150.4	149.6
40°	2294.2	1681.8	284.2	167.0	156.2	150.4	146.2	143.8	139.6	136.3	134.6
42.5°	2575.1	1818.9	224.4	154.6	145.4	139.6	136.3	131.3	125.5	120.5	119.7
45°	2867.6	1960.2	185.3	142.9	135.4	130.5	126.3	119.7	111.3	105.5	103.9
47.5°	3091.9	2048.3	162.0	130.5	124.6	120.5	115.5	107.2	97.2	90.6	88.9
50°	3252.3	2061.6	144.6	118.8	115.5	111.3	103.9	93.9	83.1	76.4	74.8
52.5°	3331.3	2001.7	130.5	108.0	105.5	101.4	92.2	81.4	69.8	63.2	61.5
55°	3367.0	1888.7	117.2	98.9	95.6	90.6	80.6	69.0	57.3	51.5	49.9
57.5°	3352.9	1721.7	105.5	89.7	85.6	79.8	69.0	56.5	47.4	41.5	40.7
60°	3248.2	1487.4	93.9	80.6	75.6	69.0	58.2	46.5	38.2	34.1	33.2
62.5°	3022.1	1196.6	82.3	69.8	66.5	59.8	49.9	38.2	31.6	29.1	28.3
65°	2559.3	845.9	70.6	59.0	57.3	50.7	41.5	31.6	27.4	25.8	24.9
67.5°	1839.7	514.4	59.8	50.7	49.0	43.2	34.9	27.4	24.9	24.1	24.1
70°	924.8	243.5	47.4	41.5	41.5	35.7	29.9	24.9	24.1	23.3	23.3
72.5°	314.1	103.9	35.7	32.4	34.1	30.7	25.8	23.3	23.3	23.3	23.3
75°	107.2	54.8	24.9	23.3	24.9	24.9	22.4	22.4	23.3	23.3	23.3
77.5°	69.8	36.6	17.4	15.8	19.1	19.1	19.1	20.8	22.4	22.4	22.4
80°	57.3	19.9	11.6	10.8	14.1	14.1	15.8	19.1	20.8	20.8	20.8
82.5°	49.0	12.5	6.6	7.5	10.0	10.8	13.3	15.8	18.3	19.1	19.1
85°	33.2	6.6	5.0	5.8	6.6	8.3	10.8	13.3	15.0	16.6	16.6
87.5°	9.1	2.5	3.3	4.2	4.2	5.8	8.3	10.0	11.6	12.5	12.5
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)