

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: P633277

Luminaire Tested: GWS-SA2E-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11265.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

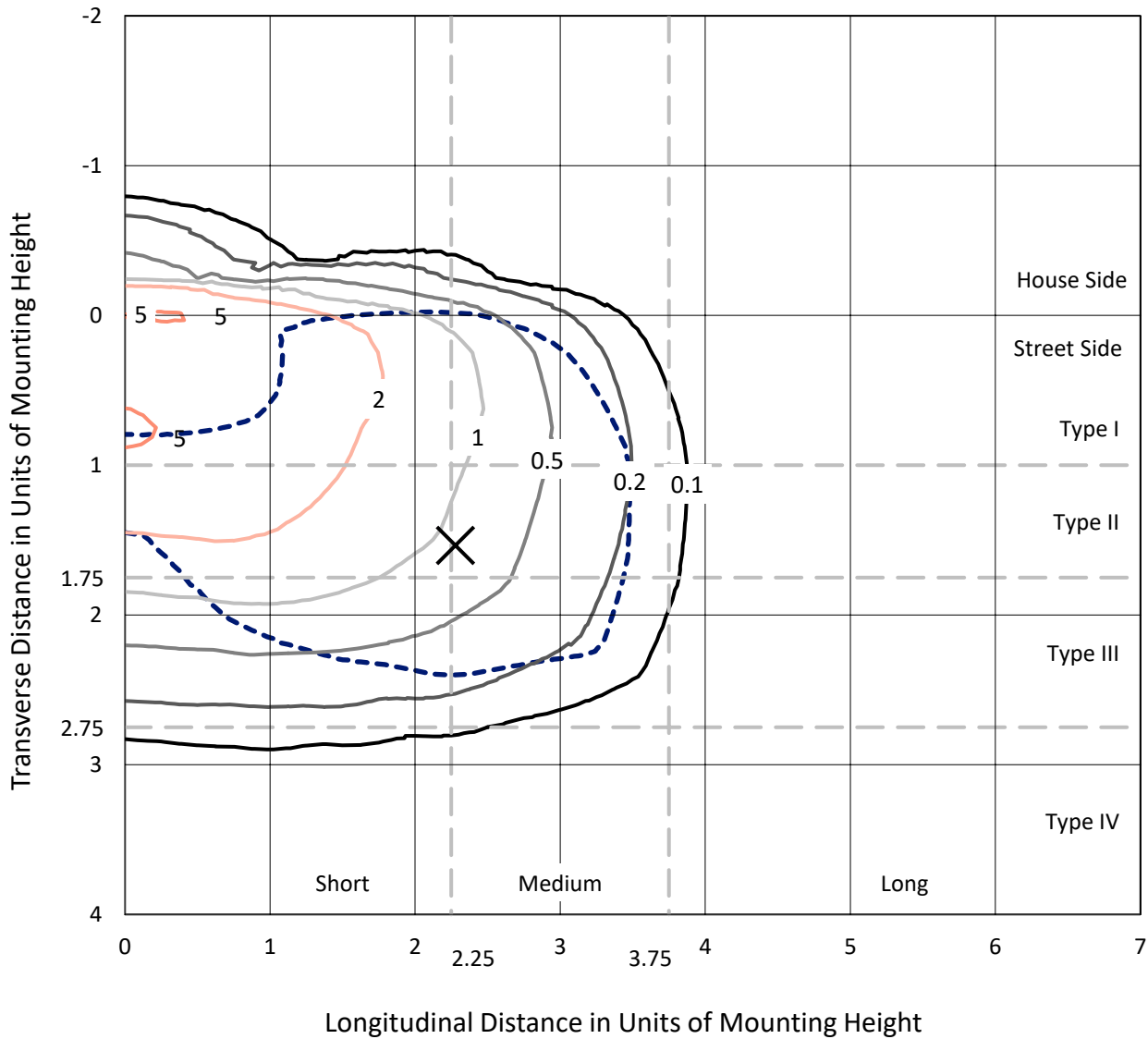
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633277
 CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

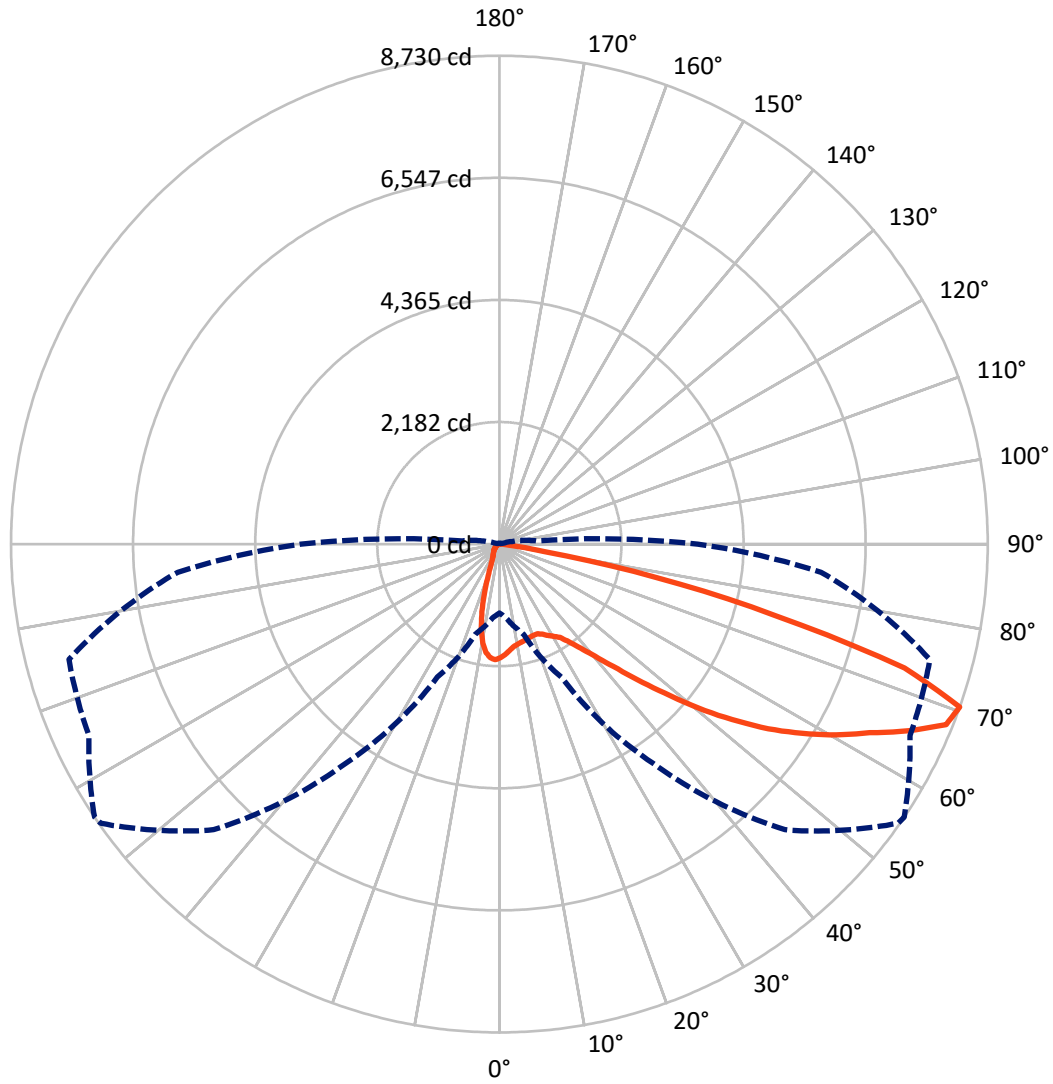
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P633277
CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P633277
 CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-HSS

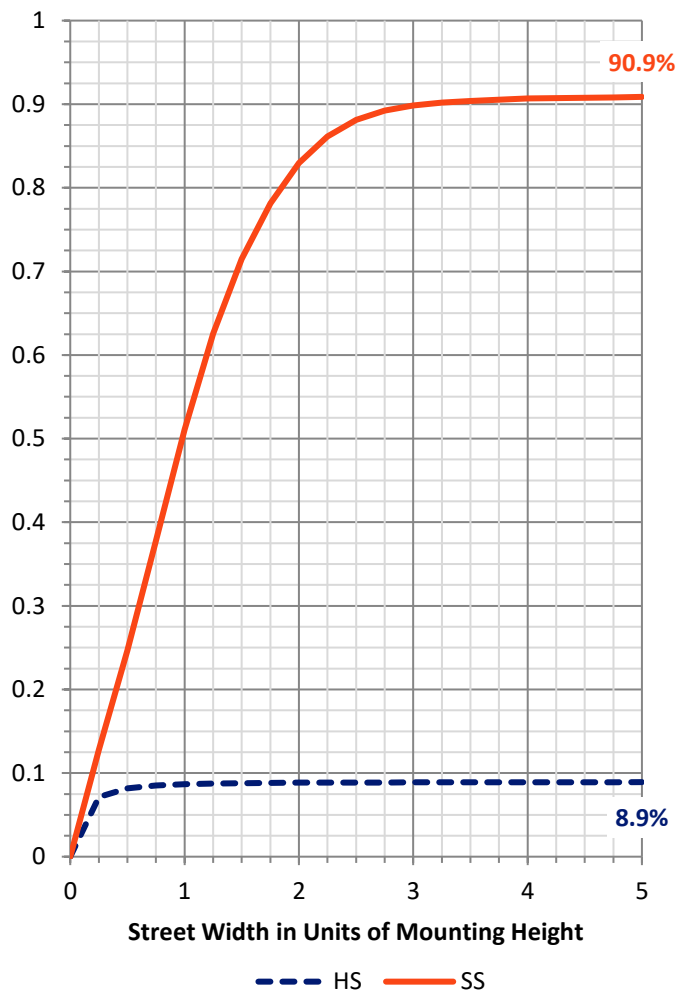
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.9	0.0	1011.9
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	10253.8	0.0	10253.8
	% Fixture	91.0	0.0	91.0
Total	Lumens	11265.7	0.0	11265.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.5
10°-20°	392.3	3.5
20°-30°	621.3	5.5
30°-40°	1071.5	9.5
40°-50°	1809.4	16.1
50°-60°	2658.6	23.6
60°-70°	3151.9	28.0
70°-80°	1344.1	11.9
80°-90°	42.2	0.4
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°	11265.7	100.0
0°-180°	11265.7	100.0

Coefficient of Utilization



REPORT NUMBER: P633277

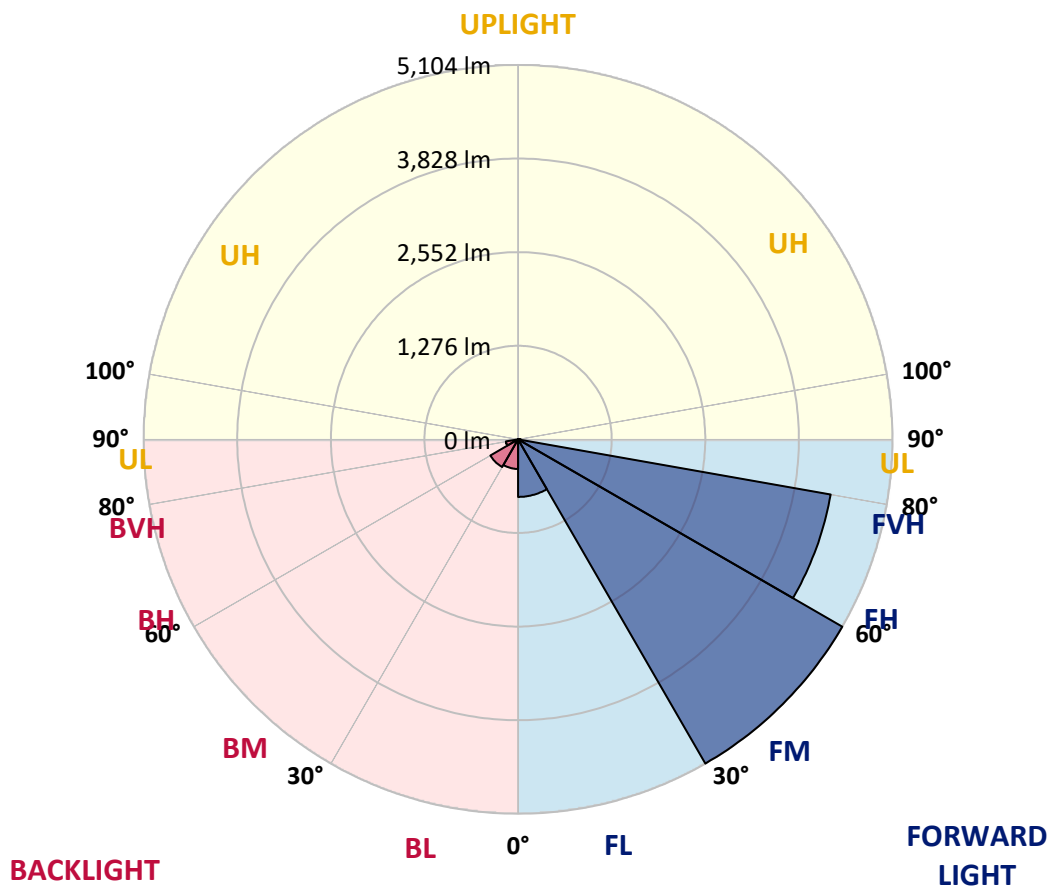
CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.0	7.0			
FM (30°-60°)	5103.7	45.3			
FH (60°-80°)	4327.2	38.4			G2/5000
FVH (80°-90°)	37.9	0.3			G1/100
BL (0°-30°)	403.0	3.6	B1/500		
BM (30°-60°)	435.8	3.9	B1/1000		
BH (60°-80°)	168.8	1.5	B1/500		G1/500
BVH (80°-90°)	4.3	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 Medium





REPORT NUMBER: P633277

CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3
2.5°	1891.0	1887.9	1890.0	1905.5	1934.3	1947.8	1970.5	1974.6	1993.1	2016.9	2026.2
5°	1768.2	1757.9	1763.1	1784.8	1817.8	1854.9	1897.2	1908.6	1955.0	2007.6	2046.8
7.5°	1655.8	1644.5	1656.8	1690.9	1737.3	1777.5	1840.5	1847.7	1922.0	2014.8	2086.0
10°	1479.4	1482.5	1507.2	1567.1	1638.3	1721.8	1806.4	1816.7	1908.6	2038.5	2148.9
12.5°	1344.2	1337.0	1363.8	1431.9	1532.0	1653.7	1780.6	1794.0	1909.6	2074.6	2229.4
15°	1281.3	1279.2	1290.6	1340.1	1437.1	1580.5	1756.9	1774.4	1923.0	2107.7	2305.7
17.5°	1283.4	1280.3	1279.2	1308.1	1380.3	1525.8	1731.1	1753.8	1934.3	2143.8	2386.2
20°	1373.1	1358.7	1332.9	1319.5	1362.8	1490.7	1713.6	1739.4	1950.9	2181.9	2471.8
22.5°	1560.9	1566.0	1496.9	1424.7	1404.1	1494.9	1711.5	1741.4	1987.0	2241.8	2577.1
25°	1936.4	1928.2	1800.2	1638.3	1525.8	1542.3	1747.6	1783.7	2058.1	2327.4	2676.1
27.5°	2406.8	2414.1	2238.7	1980.8	1745.6	1640.3	1813.6	1849.7	2140.7	2381.0	2742.1
30°	2919.6	2912.3	2724.6	2438.8	2057.1	1803.3	1879.7	1911.6	2181.9	2409.9	2810.2
32.5°	3404.4	3387.9	3202.2	2903.1	2454.3	2060.2	1970.5	1989.0	2236.6	2472.9	2902.0
35°	3818.1	3817.1	3655.1	3336.4	2862.8	2382.1	2126.2	2141.7	2338.8	2572.9	3037.2
37.5°	4245.2	4230.8	4049.2	3758.3	3282.7	2734.9	2364.5	2358.4	2499.7	2720.5	3203.3
40°	4596.0	4586.7	4447.4	4167.9	3719.1	3124.9	2653.4	2634.8	2690.5	2924.7	3434.4
42.5°	4856.0	4857.0	4813.7	4643.5	4181.3	3575.7	3016.5	2987.7	2986.6	3233.2	3739.7
45°	5053.0	5066.4	5131.4	5105.6	4727.0	4100.8	3481.8	3451.9	3401.4	3633.5	4089.5
47.5°	5144.8	5162.4	5358.4	5461.6	5204.7	4621.8	4035.8	3972.9	3873.8	4165.8	4480.5
50°	5135.6	5166.5	5439.9	5753.5	5638.0	5150.0	4639.3	4609.4	4447.4	4729.1	4867.3
52.5°	4925.1	4991.1	5445.0	5931.0	5971.2	5636.9	5263.5	5207.8	5129.4	5317.1	5230.5
55°	4353.6	4434.0	5227.4	5987.7	6231.2	6062.0	5874.2	5828.8	5698.8	5872.2	5547.2
57.5°	4043.0	4112.2	4769.3	5959.8	6451.9	6455.0	6417.9	6380.8	6273.5	6421.0	5918.6
60°	3856.3	3925.4	4524.8	5857.7	6652.1	6869.8	6928.6	6924.4	6769.7	7045.1	6353.9
62.5°	3582.9	3677.8	4270.0	5592.6	6794.4	7278.3	7455.7	7427.9	7255.6	7695.1	6785.2
65°	3031.0	3113.5	3748.0	5155.2	6710.9	7616.7	8027.3	8041.7	7842.6	8306.8	7125.6
67.5°	2125.2	2186.1	2816.4	4237.0	6143.5	7728.1	8612.2	8611.2	8271.8	8620.5	6975.0
70°	1231.8	1315.4	1664.1	2619.4	4779.6	7221.6	8699.9	8729.8	8097.4	7965.4	5772.1
72.5°	476.6	545.7	942.9	1391.7	2492.5	5531.7	7483.6	7571.3	6776.9	6144.5	4017.2
75°	142.4	158.9	443.6	740.7	1000.7	2672.0	5066.4	5091.2	4648.6	3832.6	2059.2
77.5°	106.3	117.6	194.0	374.5	350.8	809.8	2621.4	2862.8	2467.7	1369.0	567.4
80°	72.2	85.6	138.2	182.6	130.0	215.6	736.6	808.8	753.1	307.4	142.4
82.5°	32.0	41.3	98.0	91.8	47.5	61.9	227.0	241.4	155.8	92.8	49.5
85°	3.1	4.1	37.1	40.2	17.5	14.4	47.5	47.5	34.0	32.0	20.6
87.5°	0.0	0.0	1.0	2.1	2.1	3.1	4.1	5.2	6.2	8.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633277
 CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3	2031.3
2.5°	2049.9	2037.5	2053.0	2065.4	2068.5	2045.8	2032.4	2012.7	2008.6	2009.7	2004.5
5°	2077.7	2071.6	2082.9	2069.5	2034.4	1968.4	1911.6	1848.7	1814.7	1795.1	1793.0
7.5°	2129.3	2126.2	2113.9	2053.0	1943.6	1797.1	1655.8	1517.6	1431.9	1401.0	1395.8
10°	2205.7	2199.5	2148.9	2004.5	1771.3	1489.7	1252.4	1054.3	933.6	898.6	855.2
12.5°	2293.4	2281.0	2170.6	1900.3	1511.4	1121.4	825.3	603.5	499.3	468.4	468.4
15°	2378.0	2351.1	2158.2	1728.0	1191.6	729.4	461.1	348.7	316.7	308.5	308.5
17.5°	2464.6	2413.0	2109.7	1492.8	823.3	431.2	307.4	285.8	281.6	282.7	283.7
20°	2546.1	2465.6	2024.1	1210.1	525.1	301.2	275.5	270.3	268.2	270.3	269.3
22.5°	2634.8	2514.1	1894.1	901.7	341.5	271.3	262.0	257.9	255.8	258.9	258.9
25°	2722.5	2549.2	1721.8	606.6	271.3	252.8	247.6	243.5	241.4	242.4	242.4
27.5°	2767.9	2535.8	1495.9	386.9	243.5	234.2	229.0	223.9	220.8	219.7	220.8
30°	2798.9	2494.5	1219.4	275.5	220.8	209.4	204.3	200.1	191.9	186.7	188.8
32.5°	2847.4	2453.3	919.2	231.1	202.2	184.7	176.4	166.1	154.7	149.6	149.6
35°	2905.1	2396.5	644.8	208.4	182.6	164.0	148.6	131.0	117.6	113.5	113.5
37.5°	2981.5	2342.9	429.2	192.9	166.1	146.5	124.8	104.2	89.8	87.7	86.7
40°	3096.0	2297.5	302.3	181.6	151.7	127.9	102.1	80.5	70.2	67.1	67.1
42.5°	3244.5	2251.1	239.3	170.2	139.3	110.4	81.5	64.0	55.7	53.6	52.6
45°	3428.2	2196.4	208.4	159.9	126.9	91.8	65.0	53.6	47.5	45.4	45.4
47.5°	3627.3	2122.1	194.0	146.5	112.4	74.3	54.7	46.4	43.3	42.3	41.3
50°	3823.3	2022.0	181.6	134.1	95.9	60.9	47.5	42.3	40.2	39.2	39.2
52.5°	3994.5	1905.5	166.1	119.7	78.4	52.6	42.3	39.2	37.1	35.1	34.0
55°	4141.0	1778.6	146.5	103.2	64.0	46.4	39.2	36.1	34.0	32.0	30.9
57.5°	4329.8	1706.3	117.6	83.6	52.6	41.3	36.1	33.0	30.9	27.9	27.9
60°	4539.3	1653.7	87.7	66.0	45.4	38.2	33.0	29.9	27.9	24.8	24.8
62.5°	4707.4	1575.3	69.1	53.6	39.2	34.0	29.9	26.8	24.8	21.7	21.7
65°	4771.4	1413.4	56.7	42.3	32.0	29.9	26.8	24.8	21.7	18.6	18.6
67.5°	4482.5	1089.4	47.5	34.0	26.8	25.8	23.7	22.7	18.6	16.5	15.5
70°	3549.9	664.4	39.2	27.9	22.7	21.7	21.7	19.6	16.5	15.5	14.4
72.5°	2432.6	342.5	32.0	22.7	19.6	19.6	18.6	17.5	15.5	14.4	14.4
75°	1263.8	114.5	24.8	17.5	15.5	16.5	16.5	15.5	14.4	14.4	13.4
77.5°	362.1	51.6	18.6	13.4	12.4	12.4	13.4	13.4	13.4	12.4	12.4
80°	93.9	29.9	13.4	10.3	10.3	10.3	10.3	11.3	12.4	11.3	11.3
82.5°	38.2	16.5	9.3	8.3	8.3	8.3	8.3	9.3	10.3	10.3	10.3
85°	23.7	8.3	7.2	7.2	7.2	6.2	6.2	7.2	7.2	8.3	8.3
87.5°	14.4	6.2	6.2	6.2	6.2	5.2	5.2	5.2	5.2	5.2	5.2
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)