

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: P634047

Luminaire Tested: GWS-SA2F-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634047
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-SA2F-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10088.3 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

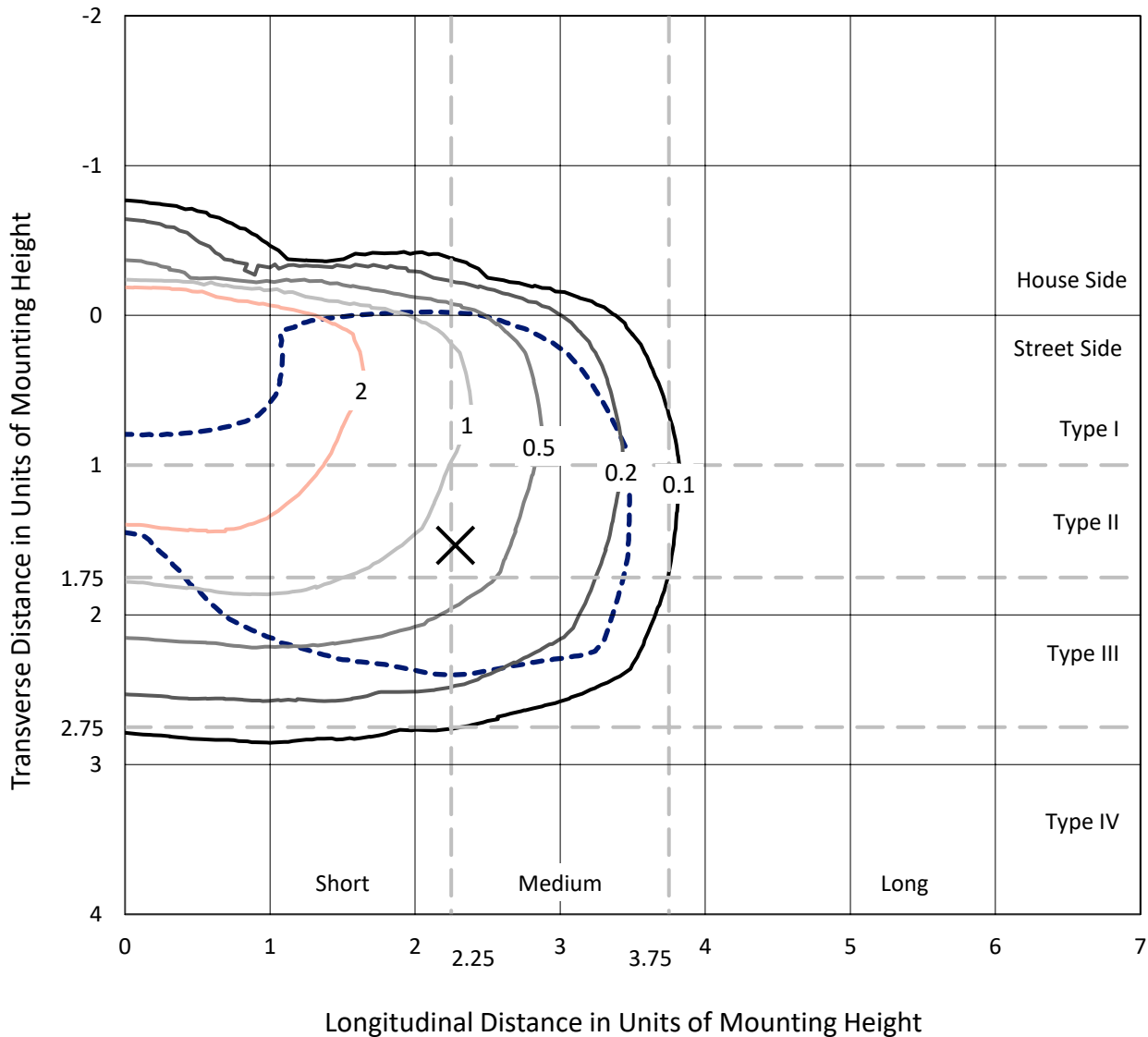
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

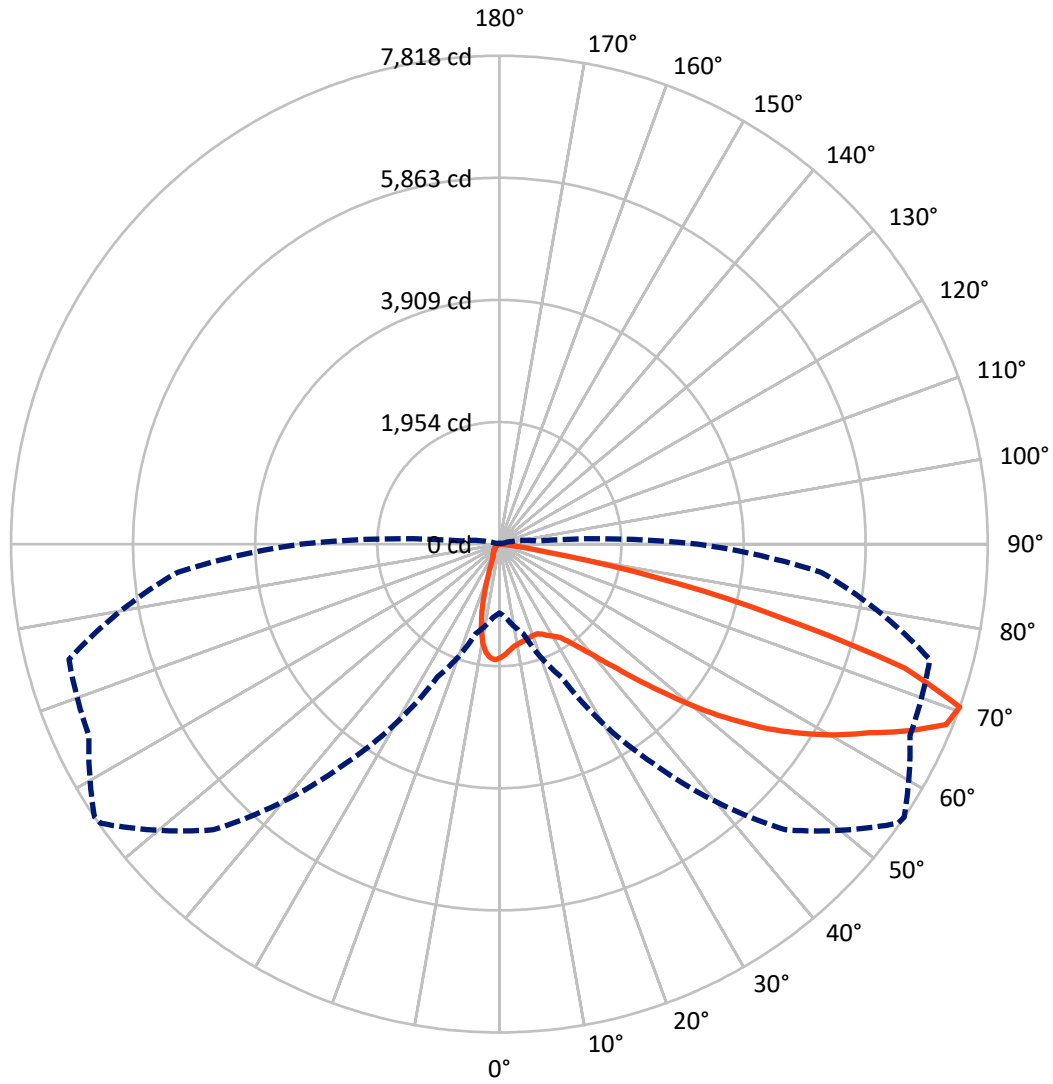
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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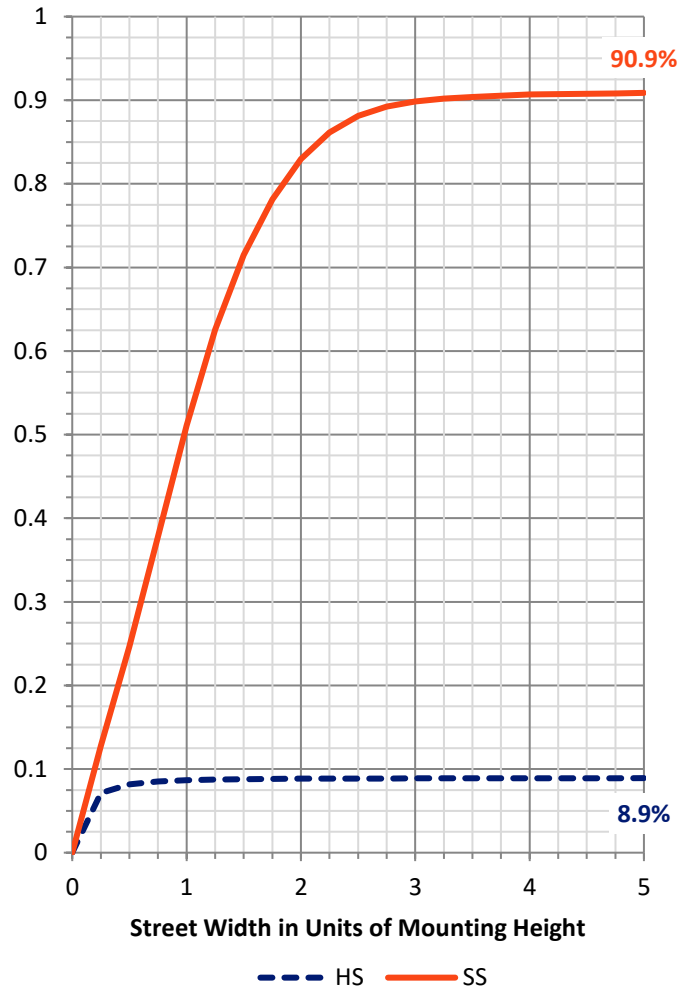
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.1	0.0	906.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	9182.2	0.0	9182.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	10088.3	0.0	10088.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.5
10°-20°	351.3	3.5
20°-30°	556.4	5.5
30°-40°	959.5	9.5
40°-50°	1620.3	16.1
50°-60°	2380.7	23.6
60°-70°	2822.5	28.0
70°-80°	1203.6	11.9
80°-90°	37.8	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°	10088.3	100.0
0°-180°	10088.3	100.0

Coefficient of Utilization



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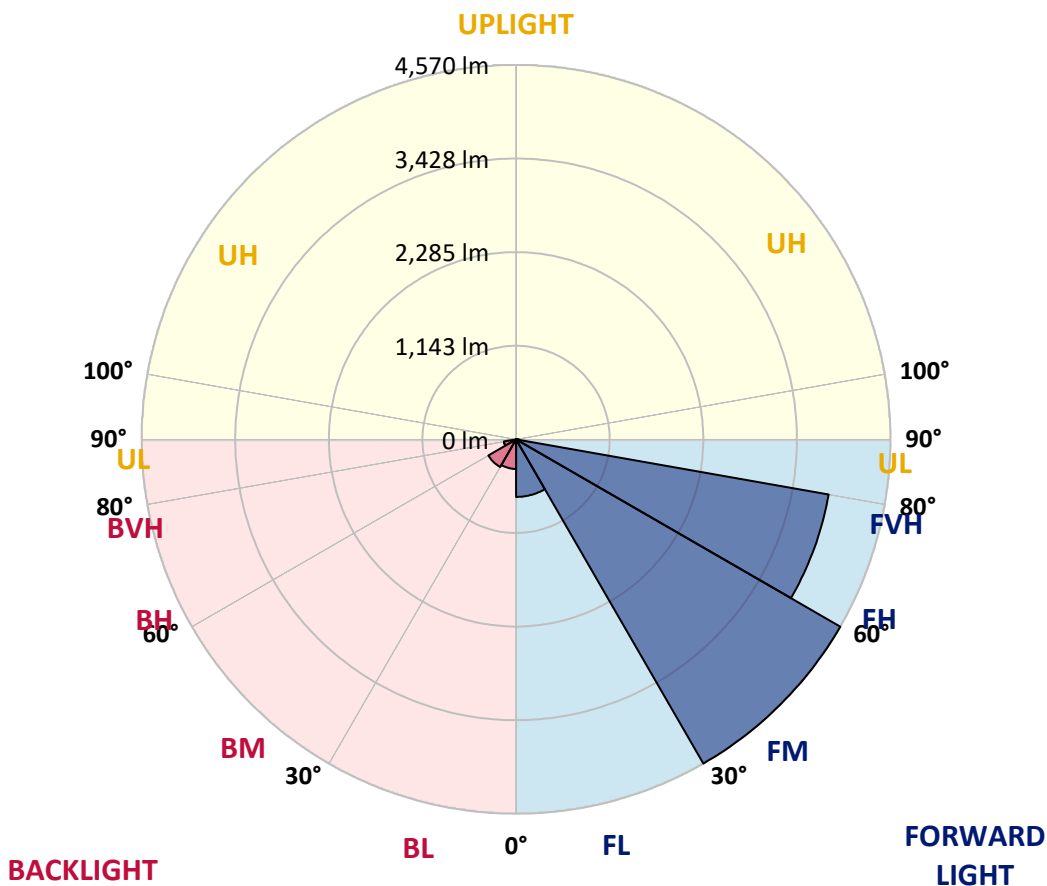
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.0	7.0			
FM (30°-60°)	4570.3	45.3			
FH (60°-80°)	3875.0	38.4			G2/5000
FVH (80°-90°)	34.0	0.3			G1/100
BL (0°-30°)	360.9	3.6	B1/500		
BM (30°-60°)	390.3	3.9	B1/1000		
BH (60°-80°)	151.1	1.5	B1/500		G1/500
BVH (80°-90°)	3.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1693.4	1690.6	1692.5	1706.3	1732.2	1744.2	1764.5	1768.2	1784.8	1806.1	1814.4
5°	1583.4	1574.2	1578.8	1598.2	1627.8	1661.0	1698.9	1709.1	1750.7	1797.8	1832.9
7.5°	1482.7	1472.6	1483.7	1514.2	1555.7	1591.8	1648.1	1654.6	1721.1	1804.2	1868.0
10°	1324.8	1327.5	1349.7	1403.3	1467.0	1541.9	1617.6	1626.9	1709.1	1825.5	1924.3
12.5°	1203.8	1197.3	1221.3	1282.3	1371.9	1480.9	1594.5	1606.5	1710.0	1857.8	1996.4
15°	1147.4	1145.5	1155.7	1200.1	1286.9	1415.3	1573.3	1589.0	1722.0	1887.4	2064.8
17.5°	1149.2	1146.5	1145.5	1171.4	1236.1	1366.3	1550.2	1570.5	1732.2	1919.7	2136.8
20°	1229.6	1216.7	1193.6	1181.6	1220.4	1334.9	1534.5	1557.6	1747.0	1953.9	2213.5
22.5°	1397.8	1402.4	1340.5	1275.8	1257.3	1338.6	1532.6	1559.4	1779.3	2007.5	2307.7
25°	1734.0	1726.6	1612.1	1467.0	1366.3	1381.1	1565.0	1597.3	1843.0	2084.2	2396.4
27.5°	2155.3	2161.8	2004.7	1773.8	1563.1	1468.9	1624.1	1656.4	1916.9	2132.2	2455.5
30°	2614.4	2608.0	2439.8	2183.9	1842.1	1614.9	1683.2	1711.9	1953.9	2158.1	2516.5
32.5°	3048.6	3033.9	2867.6	2599.7	2197.8	1844.9	1764.5	1781.1	2002.9	2214.4	2598.7
35°	3419.1	3418.2	3273.1	2987.7	2563.6	2133.1	1904.0	1917.9	2094.3	2304.0	2719.8
37.5°	3801.6	3788.6	3626.0	3365.5	2939.6	2449.1	2117.4	2111.9	2238.4	2436.1	2868.5
40°	4115.7	4107.3	3982.6	3732.3	3330.4	2798.3	2376.1	2359.5	2409.3	2619.1	3075.4
42.5°	4348.5	4349.4	4310.6	4158.2	3744.3	3202.0	2701.3	2675.4	2674.5	2895.3	3348.9
45°	4524.9	4536.9	4595.1	4572.0	4233.0	3672.2	3117.9	3091.1	3045.9	3253.7	3662.1
47.5°	4607.1	4622.8	4798.4	4890.8	4660.7	4138.8	3614.0	3557.7	3469.0	3730.4	4012.2
50°	4598.8	4626.5	4871.4	5152.2	5048.7	4611.8	4154.5	4127.7	3982.6	4234.8	4358.6
52.5°	4410.4	4469.5	4876.0	5311.1	5347.1	5047.8	4713.4	4663.5	4593.3	4761.4	4683.8
55°	3898.6	3970.6	4681.0	5361.9	5579.9	5428.4	5260.3	5219.6	5103.2	5258.4	4967.4
57.5°	3620.5	3682.4	4270.9	5337.0	5777.6	5780.4	5747.1	5713.9	5617.8	5749.9	5300.0
60°	3453.3	3515.2	4051.9	5245.5	5956.9	6151.8	6204.4	6200.7	6062.2	6308.8	5689.9
62.5°	3208.5	3293.5	3823.7	5008.1	6084.3	6517.6	6676.5	6651.6	6497.3	6890.9	6076.0
65°	2714.2	2788.1	3356.3	4616.4	6009.5	6820.6	7188.3	7201.3	7023.0	7438.7	6380.9
67.5°	1903.1	1957.6	2522.1	3794.2	5501.4	6920.4	7712.1	7711.2	7407.3	7719.5	6246.0
70°	1103.1	1177.9	1490.1	2345.6	4280.1	6466.8	7790.7	7817.5	7251.1	7132.9	5168.8
72.5°	426.8	488.7	844.4	1246.2	2232.0	4953.6	6701.5	6780.0	6068.6	5502.3	3597.4
75°	127.5	142.3	397.2	663.3	896.1	2392.7	4536.9	4559.1	4162.8	3432.0	1844.0
77.5°	95.2	105.3	173.7	335.4	314.1	725.2	2347.5	2563.6	2209.8	1225.9	508.1
80°	64.7	76.7	123.8	163.5	116.4	193.1	659.6	724.3	674.4	275.3	127.5
82.5°	28.6	37.0	87.8	82.2	42.5	55.4	203.2	216.2	139.5	83.1	44.3
85°	2.8	3.7	33.3	36.0	15.7	12.9	42.5	42.5	30.5	28.6	18.5
87.5°	0.0	0.0	0.9	1.8	1.8	2.8	3.7	4.6	5.5	7.4	9.2
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°	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1835.7	1824.6	1838.4	1849.5	1852.3	1832.0	1819.9	1802.4	1798.7	1799.6	1795.0
5°	1860.6	1855.1	1865.2	1853.2	1821.8	1762.7	1711.9	1655.5	1625.0	1607.5	1605.6
7.5°	1906.8	1904.0	1892.9	1838.4	1740.5	1609.3	1482.7	1359.0	1282.3	1254.6	1249.9
10°	1975.1	1969.6	1924.3	1795.0	1586.2	1334.0	1121.5	944.2	836.1	804.7	765.9
12.5°	2053.7	2042.6	1943.7	1701.7	1353.4	1004.2	739.1	540.4	447.1	419.4	419.4
15°	2129.4	2105.4	1932.7	1547.4	1067.0	653.1	413.0	312.3	283.6	276.2	276.2
17.5°	2207.0	2160.8	1889.2	1336.8	737.2	386.2	275.3	255.9	252.2	253.1	254.1
20°	2280.0	2208.0	1812.6	1083.7	470.2	269.8	246.7	242.0	240.2	242.0	241.1
22.5°	2359.5	2251.4	1696.2	807.4	305.8	243.0	234.7	231.0	229.1	231.9	231.9
25°	2438.0	2282.8	1541.9	543.2	243.0	226.3	221.7	218.0	216.2	217.1	217.1
27.5°	2478.6	2270.8	1339.6	346.4	218.0	209.7	205.1	200.5	197.7	196.8	197.7
30°	2506.4	2233.8	1092.0	246.7	197.7	187.5	182.9	179.2	171.8	167.2	169.1
32.5°	2549.8	2196.9	823.1	206.9	181.1	165.4	158.0	148.7	138.6	134.0	134.0
35°	2601.5	2146.1	577.4	186.6	163.5	146.9	133.0	117.3	105.3	101.6	101.6
37.5°	2669.9	2098.0	384.3	172.8	148.7	131.2	111.8	93.3	80.4	78.5	77.6
40°	2772.4	2057.4	270.7	162.6	135.8	114.6	91.5	72.1	62.8	60.0	60.0
42.5°	2905.4	2015.8	214.3	152.4	124.7	98.8	73.0	57.3	49.9	48.0	47.1
45°	3069.9	1966.8	186.6	143.2	113.6	82.2	58.2	48.0	42.5	40.6	40.6
47.5°	3248.2	1900.3	173.7	131.2	100.7	66.5	49.0	41.6	38.8	37.9	37.0
50°	3423.7	1810.7	162.6	120.1	85.9	54.5	42.5	37.9	36.0	35.1	35.1
52.5°	3577.1	1706.3	148.7	107.2	70.2	47.1	37.9	35.1	33.3	31.4	30.5
55°	3708.3	1592.7	131.2	92.4	57.3	41.6	35.1	32.3	30.5	28.6	27.7
57.5°	3877.3	1528.0	105.3	74.8	47.1	37.0	32.3	29.6	27.7	24.9	24.9
60°	4064.9	1480.9	78.5	59.1	40.6	34.2	29.6	26.8	24.9	22.2	22.2
62.5°	4215.4	1410.7	61.9	48.0	35.1	30.5	26.8	24.0	22.2	19.4	19.4
65°	4272.7	1265.6	50.8	37.9	28.6	26.8	24.0	22.2	19.4	16.6	16.6
67.5°	4014.0	975.6	42.5	30.5	24.0	23.1	21.2	20.3	16.6	14.8	13.9
70°	3178.9	594.9	35.1	24.9	20.3	19.4	19.4	17.6	14.8	13.9	12.9
72.5°	2178.4	306.7	28.6	20.3	17.6	17.6	16.6	15.7	13.9	12.9	12.9
75°	1131.7	102.5	22.2	15.7	13.9	14.8	14.8	13.9	12.9	12.9	12.0
77.5°	324.3	46.2	16.6	12.0	11.1	11.1	12.0	12.0	12.0	11.1	11.1
80°	84.1	26.8	12.0	9.2	9.2	9.2	9.2	10.2	11.1	10.2	10.2
82.5°	34.2	14.8	8.3	7.4	7.4	7.4	7.4	8.3	9.2	9.2	9.2
85°	21.2	7.4	6.5	6.5	6.5	5.5	5.5	6.5	6.5	7.4	7.4
87.5°	12.9	5.5	5.5	5.5	5.5	4.6	4.6	4.6	4.6	4.6	4.6
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)