

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: P633418

Luminaire Tested: GWS-SA2E-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14137.8 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

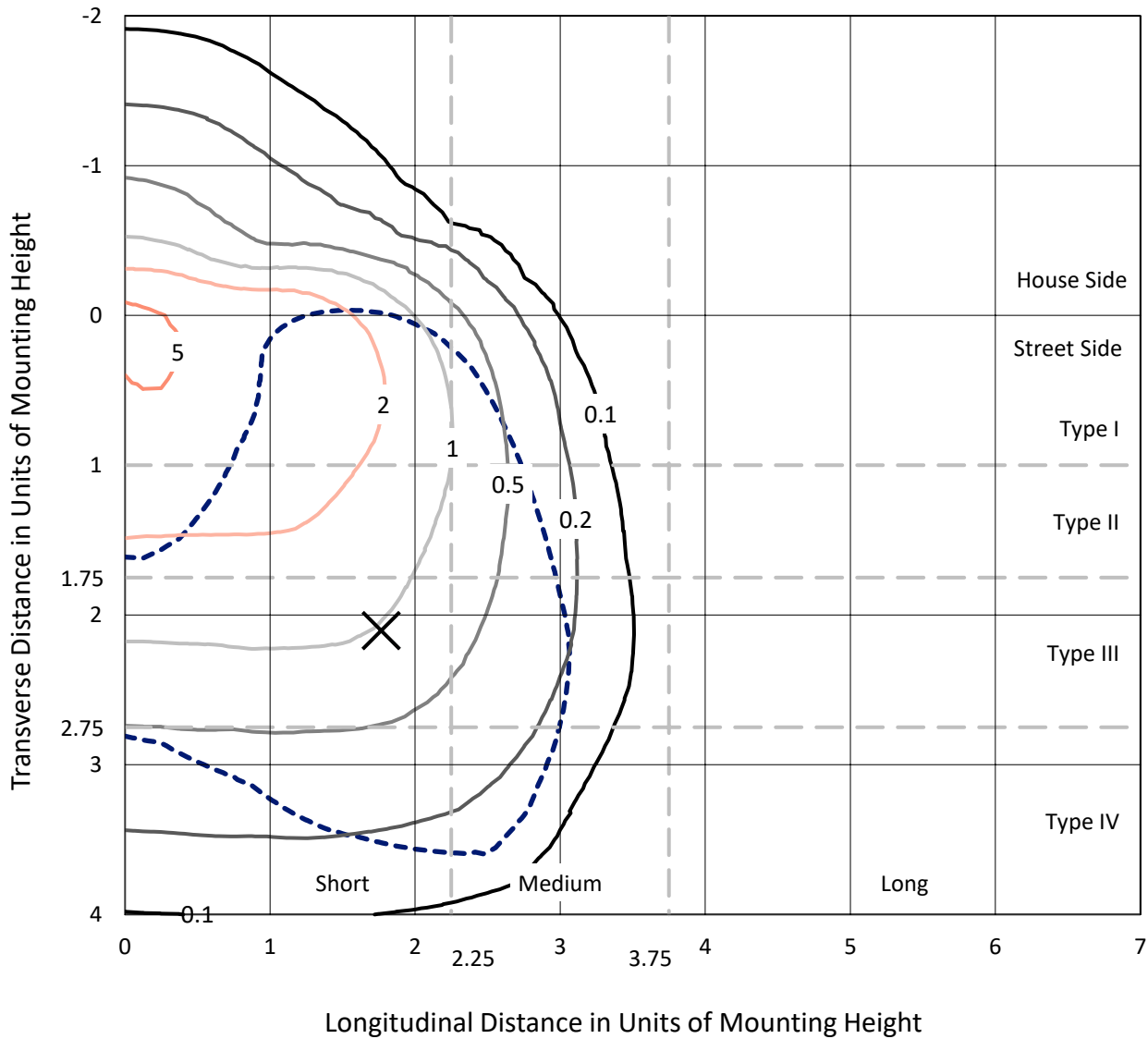
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

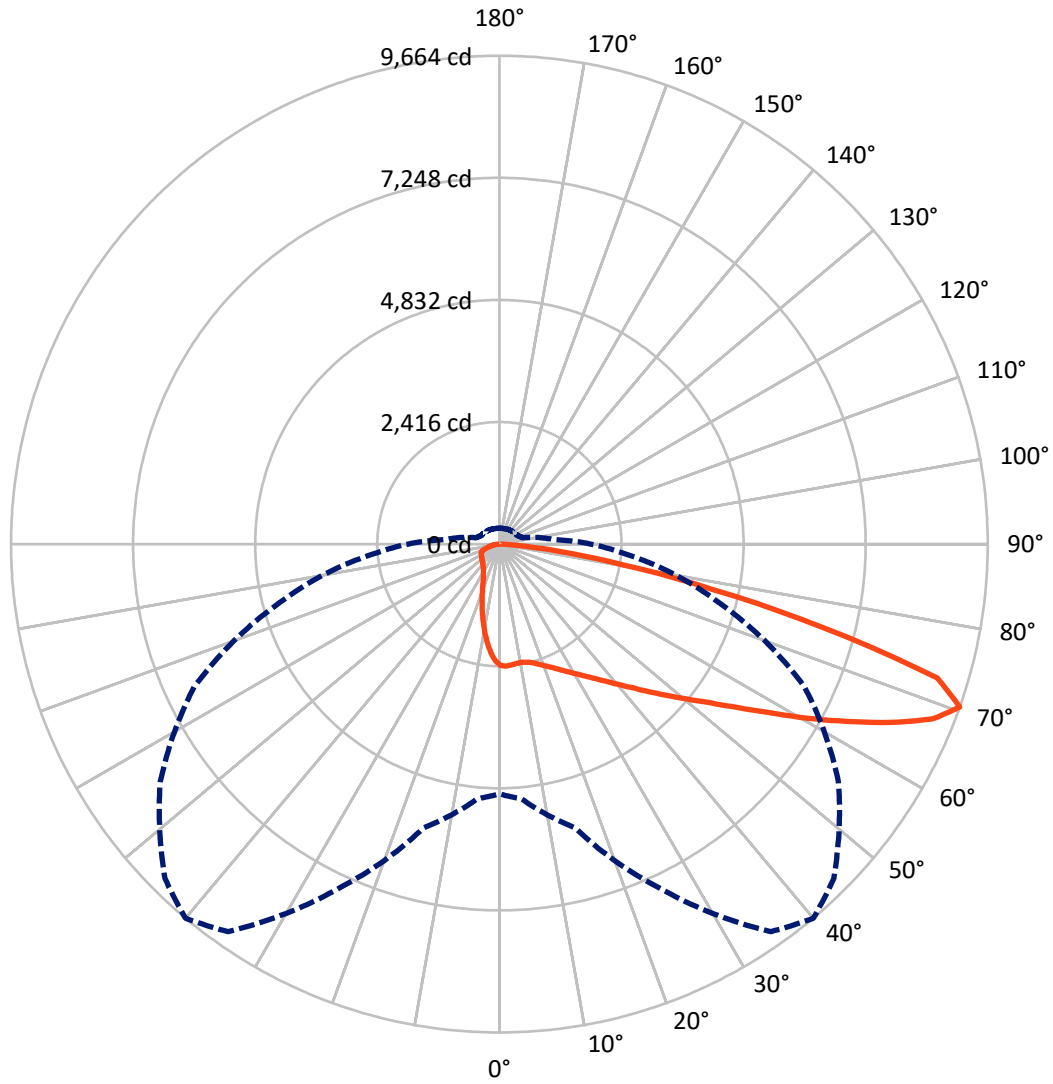
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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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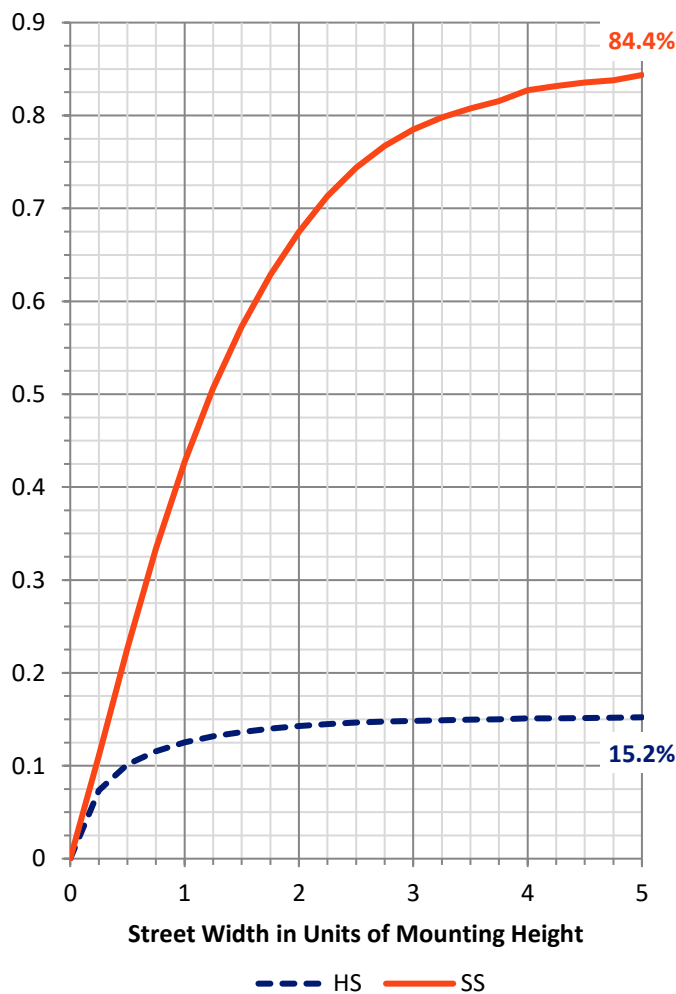
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2177.6	0.0	2177.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11960.2	0.0	11960.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	14137.8	0.0	14137.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	1.5
10°-20°	552.8	3.9
20°-30°	868.0	6.1
30°-40°	1305.1	9.2
40°-50°	2014.5	14.2
50°-60°	2991.7	21.2
60°-70°	3770.9	26.7
70°-80°	2180.7	15.4
80°-90°	242.0	1.7
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°	14137.8	100.0
0°-180°	14137.8	100.0

Coefficient of Utilization



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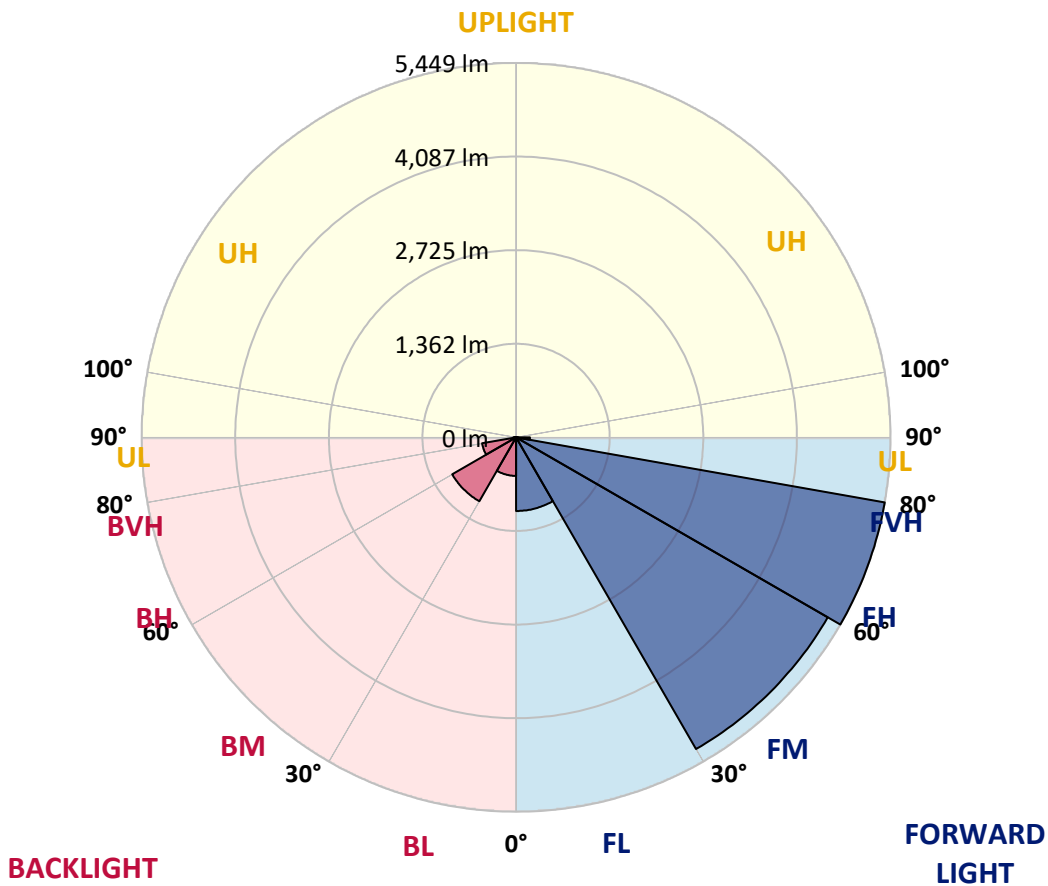
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.7	7.6			
FM (30°-60°)	5237.9	37.0			
FH (60°-80°)	5449.0	38.5			G3/7500
FVH (80°-90°)	201.6	1.4			G2/225
BL (0°-30°)	561.2	4.0	B2/1000		
BM (30°-60°)	1073.4	7.6	B2/2500		
BH (60°-80°)	502.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	40.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8
2.5°	2415.5	2419.8	2422.9	2427.1	2425.0	2418.7	2424.0	2424.0	2412.4	2399.7	2388.1
5°	2418.7	2424.0	2422.9	2421.9	2413.4	2402.9	2402.9	2396.5	2376.5	2356.4	2337.4
7.5°	2412.4	2411.3	2410.3	2407.1	2397.6	2386.0	2383.9	2371.2	2344.8	2317.4	2290.0
10°	2383.9	2382.8	2386.0	2393.4	2391.3	2380.7	2380.7	2369.1	2338.5	2304.7	2268.9
12.5°	2360.7	2360.7	2373.3	2393.4	2400.8	2396.5	2397.6	2389.2	2354.3	2314.2	2272.0
15°	2363.8	2364.9	2392.3	2425.0	2438.8	2435.6	2436.6	2427.1	2388.1	2348.0	2291.0
17.5°	2384.9	2390.2	2437.7	2483.1	2501.0	2496.8	2489.4	2473.6	2429.3	2383.9	2314.2
20°	2429.3	2437.7	2498.9	2555.9	2577.0	2567.5	2554.8	2523.2	2474.6	2425.0	2339.6
22.5°	2516.8	2522.1	2589.7	2645.6	2662.5	2650.9	2625.5	2580.2	2524.2	2472.5	2370.2
25°	2640.3	2646.6	2711.0	2762.7	2758.5	2744.8	2710.0	2654.0	2587.5	2532.7	2414.5
27.5°	2787.0	2797.5	2860.9	2902.0	2874.6	2854.5	2815.5	2747.9	2673.0	2623.4	2482.0
30°	2947.4	2951.6	3005.4	3046.6	3004.4	2976.9	2929.5	2856.6	2789.1	2752.2	2583.3
32.5°	3102.5	3106.7	3153.2	3176.4	3132.1	3112.0	3070.9	2993.8	2946.3	2926.3	2734.2
35°	3266.1	3265.0	3303.0	3323.1	3277.7	3269.3	3227.0	3167.9	3159.5	3185.9	2954.8
37.5°	3429.7	3420.2	3440.2	3466.6	3441.3	3449.7	3422.3	3402.2	3434.9	3503.5	3248.1
40°	3560.5	3560.5	3581.6	3614.3	3622.8	3659.7	3643.9	3670.3	3775.8	3939.4	3611.2
42.5°	3676.6	3677.6	3722.0	3772.6	3833.8	3890.8	3903.5	3972.1	4190.5	4446.9	4067.0
45°	3798.0	3799.0	3859.2	3933.0	4062.8	4171.5	4196.8	4350.9	4663.3	4975.6	4562.0
47.5°	3938.3	3926.7	4010.1	4133.5	4318.2	4474.4	4539.8	4758.3	5152.9	5537.1	5028.4
50°	4096.6	4072.3	4165.2	4378.4	4606.3	4820.5	4930.3	5180.4	5678.5	6055.2	5467.4
52.5°	4274.9	4261.2	4358.3	4617.9	4966.1	5213.1	5361.9	5690.1	6189.2	6571.2	5815.6
55°	4496.5	4463.8	4604.2	4934.5	5388.3	5702.7	5879.0	6194.5	6747.5	7039.8	6081.6
57.5°	4739.3	4703.4	4891.2	5330.2	5937.0	6282.1	6502.6	6762.2	7273.0	7398.6	6237.8
60°	5001.0	4989.4	5212.0	5794.5	6591.3	6992.3	7151.6	7387.0	7729.9	7606.5	6198.7
62.5°	5240.5	5236.3	5560.3	6297.9	7284.6	7725.7	7852.3	7914.6	8059.2	7592.7	5888.5
65°	5492.7	5528.6	5966.5	6881.5	8079.2	8511.9	8564.6	8406.4	8170.0	7232.9	5253.2
67.5°	5524.4	5594.0	6221.9	7428.1	8832.7	9241.1	9198.9	8593.1	7842.8	6231.4	4117.7
70°	4940.8	5062.2	5814.6	7511.5	9363.5	9664.2	9359.3	8191.1	6655.6	4514.5	2589.7
72.5°	4128.3	4232.7	4897.6	6405.5	8678.6	9061.7	8649.1	6933.2	4703.4	2589.7	1319.1
75°	3213.3	3334.7	3947.8	5091.7	6497.4	6650.4	6443.5	4835.3	2585.4	1067.9	599.4
77.5°	1960.7	2048.3	2525.3	3449.7	4546.1	4317.1	3658.7	2711.0	1134.4	511.8	370.4
80°	867.4	921.3	1244.2	1853.1	2626.6	2483.1	1957.5	1157.6	620.5	325.0	258.5
82.5°	465.4	500.2	613.1	733.4	1153.4	1206.2	978.2	666.9	333.5	185.7	147.7
85°	204.7	224.8	278.6	265.9	378.8	372.5	375.7	458.0	159.3	85.5	96.0
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	11.6	61.2	15.8	25.3	22.2
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°	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8	2400.8
2.5°	2375.4	2356.4	2351.2	2344.8	2333.2	2313.2	2298.4	2281.5	2274.1	2265.7	2266.7
5°	2316.3	2293.1	2271.0	2242.5	2206.6	2166.5	2139.1	2107.4	2090.5	2074.7	2078.9
7.5°	2265.7	2229.8	2184.4	2124.3	2059.9	1988.1	1930.1	1884.7	1854.1	1833.0	1843.6
10°	2234.0	2191.8	2112.7	2014.5	1905.8	1796.1	1712.7	1634.6	1586.1	1548.1	1546.0
12.5°	2227.7	2172.8	2057.8	1915.3	1758.1	1611.4	1489.0	1383.5	1319.1	1271.6	1289.6
15°	2234.0	2164.4	2010.3	1823.5	1625.1	1426.7	1274.8	1153.4	1076.4	1033.1	1030.0
17.5°	2241.4	2155.9	1956.5	1724.3	1485.8	1258.9	1082.7	954.0	874.8	831.6	832.6
20°	2247.7	2143.3	1893.2	1615.6	1344.4	1102.8	920.2	797.8	727.1	695.4	700.7
22.5°	2258.3	2130.6	1825.6	1499.6	1199.9	951.9	791.5	692.3	650.1	628.9	630.0
25°	2278.3	2123.2	1756.0	1372.9	1057.4	831.6	702.8	636.3	610.0	597.3	596.2
27.5°	2319.5	2129.6	1683.2	1250.5	928.6	739.8	645.8	602.6	584.6	576.2	575.1
30°	2388.1	2154.9	1619.9	1126.0	817.8	668.0	606.8	580.4	569.9	562.5	561.4
32.5°	2492.6	2202.4	1551.3	1009.9	728.1	615.2	576.2	562.5	555.1	550.9	550.9
35°	2650.9	2288.9	1483.7	908.6	658.5	574.1	551.9	546.6	540.3	538.2	540.3
37.5°	2878.8	2427.1	1422.5	820.0	608.9	542.4	525.5	527.6	522.4	525.5	528.7
40°	3167.9	2611.8	1370.8	747.1	572.0	519.2	502.3	509.7	506.5	509.7	515.0
42.5°	3534.1	2840.8	1331.8	690.2	545.6	500.2	484.4	491.8	489.6	493.9	499.1
45°	3942.5	3142.6	1313.8	650.1	526.6	486.5	469.6	474.9	472.8	475.9	481.2
47.5°	4334.0	3417.0	1329.7	626.8	510.8	474.9	456.9	459.0	458.0	456.9	460.1
50°	4671.7	3635.4	1375.0	619.4	500.2	463.3	446.4	447.4	444.3	437.9	440.1
52.5°	4947.1	3810.6	1402.5	619.4	494.9	450.6	434.8	435.8	429.5	421.1	422.1
55°	5128.7	3881.3	1380.3	618.4	492.8	440.1	423.2	424.2	417.9	407.3	408.4
57.5°	5180.4	3812.7	1287.4	606.8	490.7	431.6	411.6	413.7	409.4	397.8	397.8
60°	5035.8	3561.6	1117.5	580.4	485.4	426.3	403.1	406.3	404.2	392.6	392.6
62.5°	4656.9	3115.2	914.9	540.3	470.7	420.0	395.7	402.1	407.3	401.0	400.0
65°	3947.8	2495.7	744.0	496.0	451.7	409.4	385.2	401.0	412.6	421.1	421.1
67.5°	2962.2	1786.6	606.8	449.5	423.2	388.3	371.5	386.2	394.7	400.0	403.1
70°	1805.6	1051.1	478.0	395.7	382.0	356.7	344.0	329.2	317.6	315.5	316.6
72.5°	883.3	601.5	388.3	336.6	326.1	302.9	274.4	268.0	262.8	259.6	258.5
75°	486.5	418.9	320.8	279.6	260.7	232.2	225.8	215.3	213.2	208.9	210.0
77.5°	344.0	330.3	264.9	226.9	198.4	183.6	186.8	179.4	179.4	176.2	175.2
80°	258.5	259.6	203.7	165.7	146.7	141.4	144.6	144.6	142.5	141.4	140.4
82.5°	163.6	184.7	137.2	106.6	104.5	105.5	104.5	103.4	105.5	102.4	101.3
85°	112.9	133.0	83.4	63.3	63.3	62.3	64.4	63.3	65.4	62.3	62.3
87.5°	25.3	59.1	30.6	19.0	20.1	19.0	20.1	21.1	23.2	24.3	24.3
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)