

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: P632807

Luminaire Tested: GWS-SA2D-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11474 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.1
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

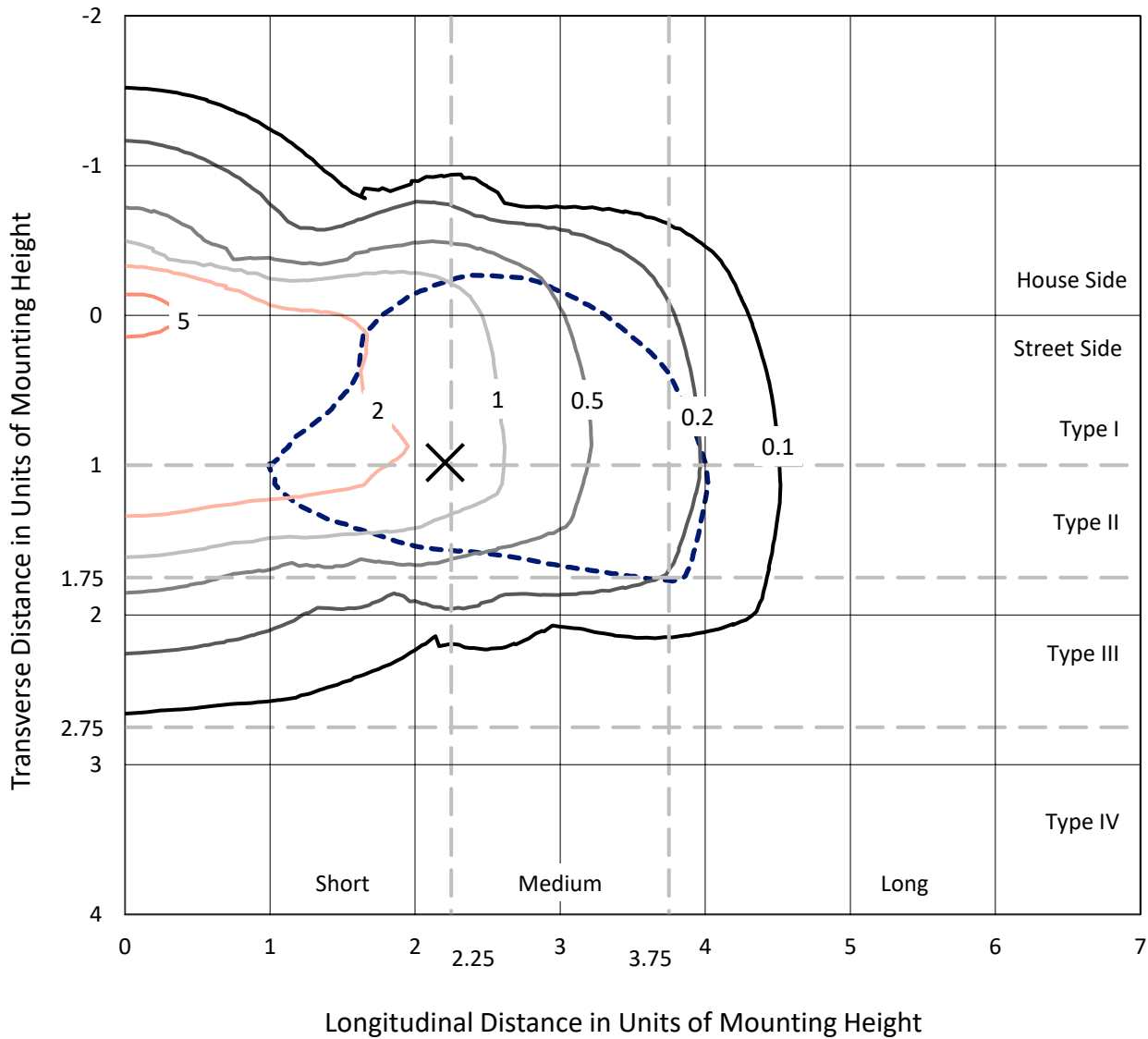


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Iso-Footcandle Lines of Horizontal Illumination

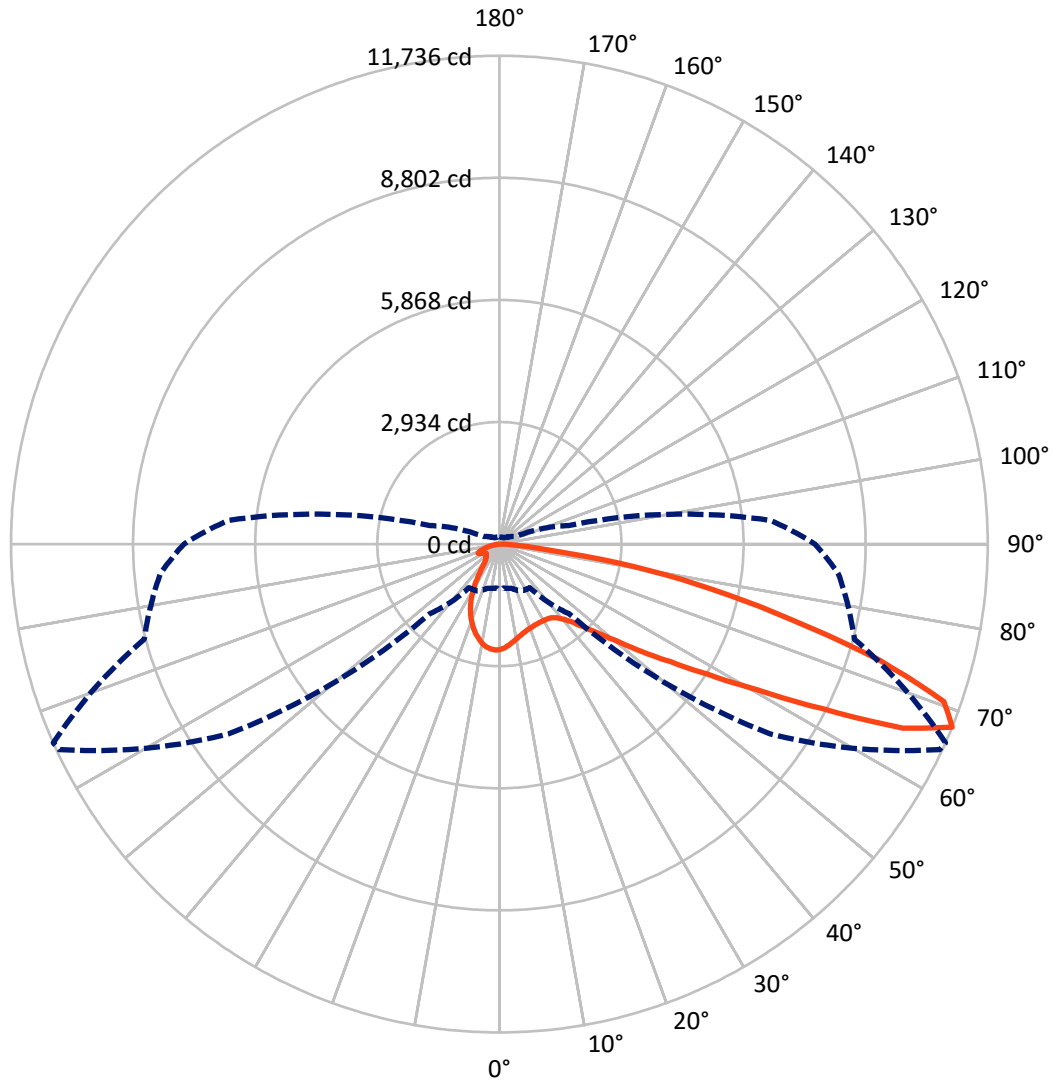
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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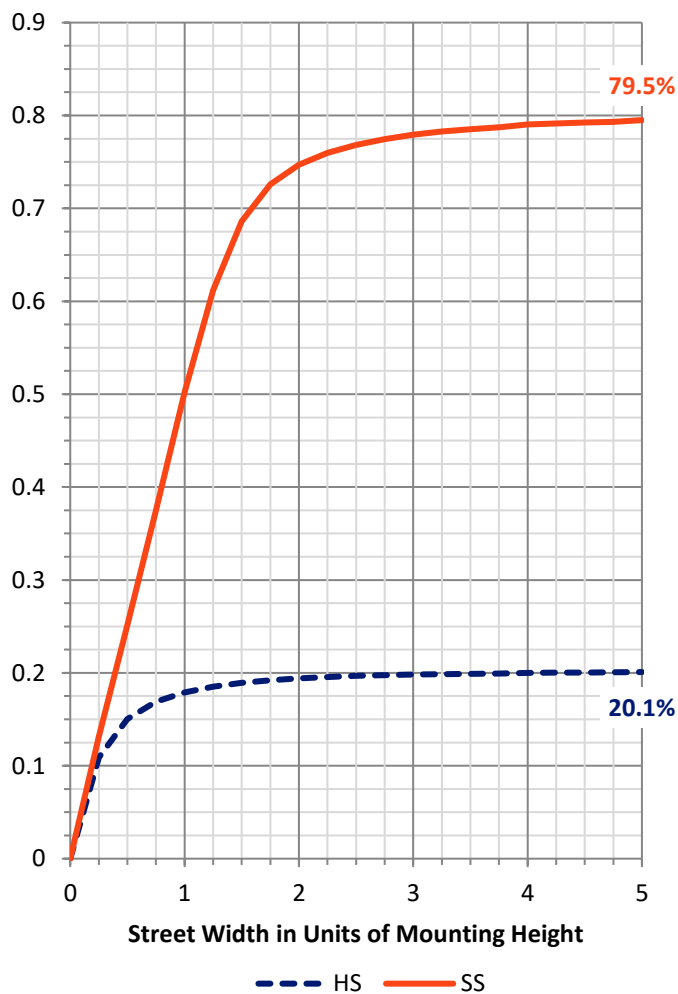
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.3	0.0	2328.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9145.7	0.0	9145.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	11474.0	0.0	11474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.9
10°-20°	546.9	4.8
20°-30°	751.7	6.6
30°-40°	1027.7	9.0
40°-50°	1557.2	13.6
50°-60°	2420.7	21.1
60°-70°	2947.1	25.7
70°-80°	1795.2	15.6
80°-90°	205.1	1.8
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°	11474.0	100.0
0°-180°	11474.0	100.0

Coefficient of Utilization



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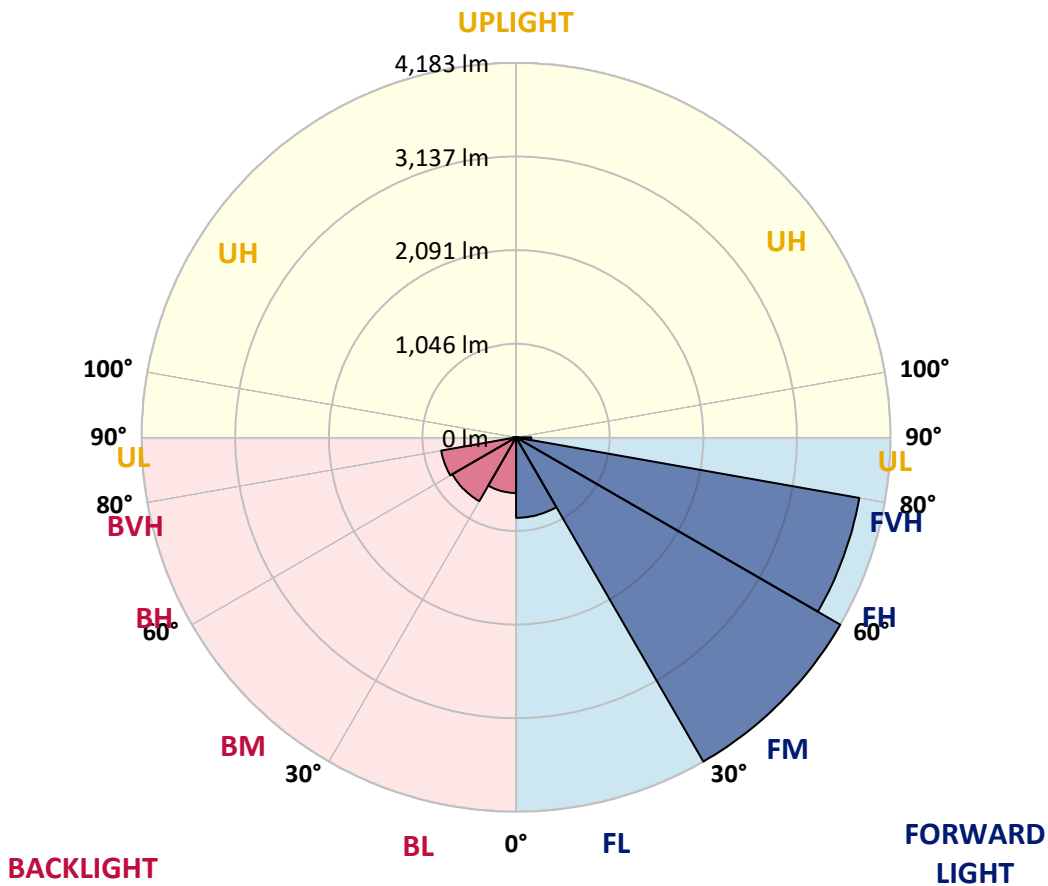
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.0	7.8			
FM (30°-60°)	4182.7	36.5			
FH (60°-80°)	3893.4	33.9			G2/5000
FVH (80°-90°)	170.5	1.5			G2/225
BL (0°-30°)	622.0	5.4	B2/1000		
BM (30°-60°)	822.8	7.2	B1/1000		
BH (60°-80°)	849.0	7.4	B2/1000		G2/1000
BVH (80°-90°)	34.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4
2.5°	2374.7	2383.1	2378.1	2409.9	2411.5	2451.7	2474.3	2493.6	2495.2	2520.4	2537.1
5°	2212.3	2217.3	2217.3	2247.5	2267.6	2321.1	2373.0	2428.3	2432.5	2492.7	2538.8
7.5°	2080.9	2085.9	2082.6	2122.8	2148.7	2208.1	2274.3	2358.8	2367.2	2464.3	2544.6
10°	1978.0	1976.3	1984.6	2021.5	2055.0	2126.1	2199.8	2296.0	2308.6	2431.6	2551.3
12.5°	1907.6	1909.3	1914.3	1952.8	1988.8	2059.1	2135.3	2239.9	2253.3	2394.0	2548.0
15°	1874.2	1870.8	1875.0	1910.2	1944.5	2006.4	2085.1	2193.1	2206.5	2360.5	2548.8
17.5°	1866.6	1864.1	1863.3	1888.4	1914.3	1972.1	2047.4	2157.1	2171.3	2338.7	2553.8
20°	1890.1	1886.7	1877.5	1888.4	1899.3	1947.8	2020.6	2131.1	2147.0	2324.5	2563.9
22.5°	1954.5	1948.7	1934.4	1921.0	1906.8	1936.1	2003.9	2111.9	2127.8	2315.3	2573.9
25°	2052.4	2047.4	2032.4	2002.2	1950.3	1945.3	2000.6	2103.5	2119.4	2308.6	2578.1
27.5°	2187.2	2179.7	2164.6	2121.1	2036.5	1979.6	2013.1	2102.7	2117.7	2301.1	2573.9
30°	2347.1	2342.1	2333.7	2281.0	2168.0	2052.4	2041.6	2109.4	2121.1	2296.9	2565.6
32.5°	2509.5	2504.5	2511.2	2486.0	2347.1	2173.0	2103.5	2127.8	2136.2	2296.0	2558.0
35°	2652.6	2658.5	2707.0	2711.2	2574.8	2336.2	2201.4	2170.5	2172.1	2312.8	2561.4
37.5°	2802.4	2825.0	2888.7	2943.1	2829.2	2552.2	2347.1	2250.8	2249.2	2355.5	2582.3
40°	3000.8	3010.9	3092.1	3194.2	3123.0	2848.5	2553.8	2382.2	2370.5	2442.5	2638.4
42.5°	3194.2	3218.5	3348.2	3465.4	3442.0	3182.5	2814.2	2579.0	2558.0	2596.5	2753.9
45°	3440.3	3463.7	3609.4	3760.0	3802.7	3560.0	3147.3	2858.5	2837.6	2828.4	2965.7
47.5°	3686.4	3710.6	3841.2	4058.9	4208.7	4032.1	3580.9	3227.7	3193.4	3157.4	3285.4
50°	3852.1	3880.6	4005.3	4266.5	4618.0	4621.4	4094.9	3711.5	3668.0	3611.0	3735.8
52.5°	3846.3	3864.7	3983.5	4284.9	4912.7	5298.5	4782.9	4327.6	4292.4	4168.5	4277.3
55°	3544.1	3571.7	3691.4	4068.1	4944.5	5940.6	5794.1	5054.1	4991.3	4769.5	4889.2
57.5°	2937.2	2960.7	3081.2	3545.7	4662.4	6269.5	7078.1	5979.9	5893.7	5424.1	5562.2
60°	2217.3	2188.9	2245.8	2652.6	3987.7	6277.9	8211.5	7235.5	7091.5	6123.9	6239.4
62.5°	1664.1	1635.6	1648.2	1762.8	2703.7	5770.6	8857.7	8953.1	8715.4	6914.0	6891.4
65°	1315.0	1299.1	1335.1	1413.8	1576.2	4394.5	8862.7	10810.5	10660.7	7829.8	7560.2
67.5°	1071.4	1061.4	1098.2	1243.9	1278.2	2361.3	7947.0	11677.7	11736.3	8832.6	8180.5
70°	863.0	847.9	905.7	1097.4	1188.6	1428.8	5692.8	11235.7	11330.3	9430.2	8005.6
72.5°	596.0	596.8	626.1	888.9	1147.6	1233.8	3220.1	9355.7	9560.8	8888.6	7037.9
75°	401.8	405.1	413.5	586.8	1057.2	1197.0	1716.0	7083.1	7227.9	7346.8	5817.5
77.5°	242.7	244.4	263.7	354.9	729.1	1117.5	1162.7	5134.5	5248.3	4843.2	3606.0
80°	140.6	146.5	164.1	237.7	492.2	839.6	899.8	3148.1	3277.1	2152.9	1145.9
82.5°	61.9	66.1	89.6	138.1	287.1	714.0	702.3	1243.9	1225.4	600.2	397.6
85°	10.9	13.4	19.3	43.5	105.5	376.7	544.9	549.1	516.5	227.7	164.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	82.0	147.3	146.5	64.5	56.9
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°	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4	2535.4
2.5°	2548.0	2525.4	2545.5	2548.0	2543.8	2540.5	2515.3	2493.6	2491.1	2467.6	2467.6
5°	2557.2	2536.3	2546.3	2527.1	2496.9	2466.0	2412.4	2375.6	2358.8	2328.7	2328.7
7.5°	2569.7	2548.0	2536.3	2488.6	2418.2	2350.4	2264.2	2192.2	2162.9	2120.3	2118.6
10°	2581.5	2553.8	2513.7	2420.8	2308.6	2200.6	2075.1	1972.9	1903.5	1852.4	1852.4
12.5°	2580.6	2544.6	2465.1	2327.8	2173.0	2016.5	1849.0	1695.0	1603.0	1523.4	1518.4
15°	2579.0	2529.6	2403.2	2219.9	2014.8	1798.0	1570.3	1369.4	1233.0	1155.1	1148.4
17.5°	2577.3	2510.3	2333.7	2096.8	1822.3	1526.8	1226.3	1008.6	894.8	847.1	848.8
20°	2577.3	2488.6	2259.2	1955.4	1600.4	1202.0	899.8	741.6	713.2	715.7	718.2
22.5°	2569.7	2461.8	2176.3	1801.3	1353.5	883.9	663.8	610.2	625.3	648.7	652.1
25°	2552.2	2417.4	2080.1	1630.6	1059.7	643.7	541.6	531.5	559.2	588.4	596.8
27.5°	2524.5	2366.3	1972.1	1430.5	780.1	517.3	476.3	475.4	497.2	519.0	526.5
30°	2495.2	2309.4	1858.3	1207.9	565.0	450.3	434.4	434.4	445.3	458.7	457.0
32.5°	2460.9	2251.7	1736.0	976.0	460.4	412.7	407.6	405.1	406.8	411.8	411.8
35°	2431.6	2200.6	1610.5	730.7	412.7	391.7	386.7	380.9	378.3	375.0	376.7
37.5°	2420.8	2160.4	1480.7	550.8	389.2	376.7	368.3	359.9	354.1	352.4	351.6
40°	2438.3	2143.7	1351.0	453.7	372.5	360.8	351.6	340.7	335.7	335.7	335.7
42.5°	2507.0	2156.2	1218.7	410.2	360.8	347.4	334.0	323.9	322.3	323.9	324.8
45°	2632.5	2204.8	1081.5	388.4	350.7	334.0	318.1	310.5	310.5	312.2	312.2
47.5°	2856.9	2332.0	945.9	375.0	340.7	323.1	306.4	298.8	298.0	299.7	299.7
50°	3245.2	2561.4	823.7	365.8	333.1	314.7	298.0	287.9	285.4	284.6	284.6
52.5°	3734.9	2959.0	745.8	359.1	323.9	305.5	288.8	275.4	270.4	267.9	267.9
55°	4326.7	3488.8	745.8	354.1	312.2	294.6	275.4	262.0	254.5	251.1	251.1
57.5°	4997.2	4105.7	874.7	349.9	303.0	282.1	261.2	247.8	239.4	234.4	234.4
60°	5679.4	4757.8	1193.6	344.0	294.6	266.2	245.3	232.7	221.8	216.0	215.1
62.5°	6386.7	5476.0	1613.8	347.4	288.8	251.1	228.5	214.3	205.1	199.2	198.4
65°	7034.6	6159.9	1981.3	373.3	289.6	237.7	209.3	196.7	189.2	181.6	180.8
67.5°	7584.5	6537.4	1723.5	426.1	307.2	221.8	190.0	177.5	170.8	165.7	164.9
70°	7199.5	5961.5	977.7	458.7	331.5	205.1	168.2	159.9	153.2	149.8	149.0
72.5°	6156.5	5047.4	653.7	405.1	302.2	183.3	148.2	141.5	136.4	132.3	131.4
75°	4987.2	4002.8	499.7	332.3	235.2	149.0	127.2	122.2	117.2	113.0	112.2
77.5°	2950.6	2312.8	368.3	262.8	165.7	116.4	105.5	101.3	96.3	92.9	92.1
80°	941.7	803.6	233.5	180.8	109.7	89.6	81.2	77.8	72.8	68.6	67.8
82.5°	359.1	310.5	123.9	92.1	72.8	61.1	54.4	51.1	47.7	43.5	42.7
85°	159.0	149.0	68.6	49.4	39.3	30.1	26.8	25.1	20.9	17.6	16.7
87.5°	56.1	56.1	29.3	14.2	8.4	4.2	2.5	0.8	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)