

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: P632727

Luminaire Tested: GWS-SA2D-730-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632727
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-SA2D-730-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, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8323.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

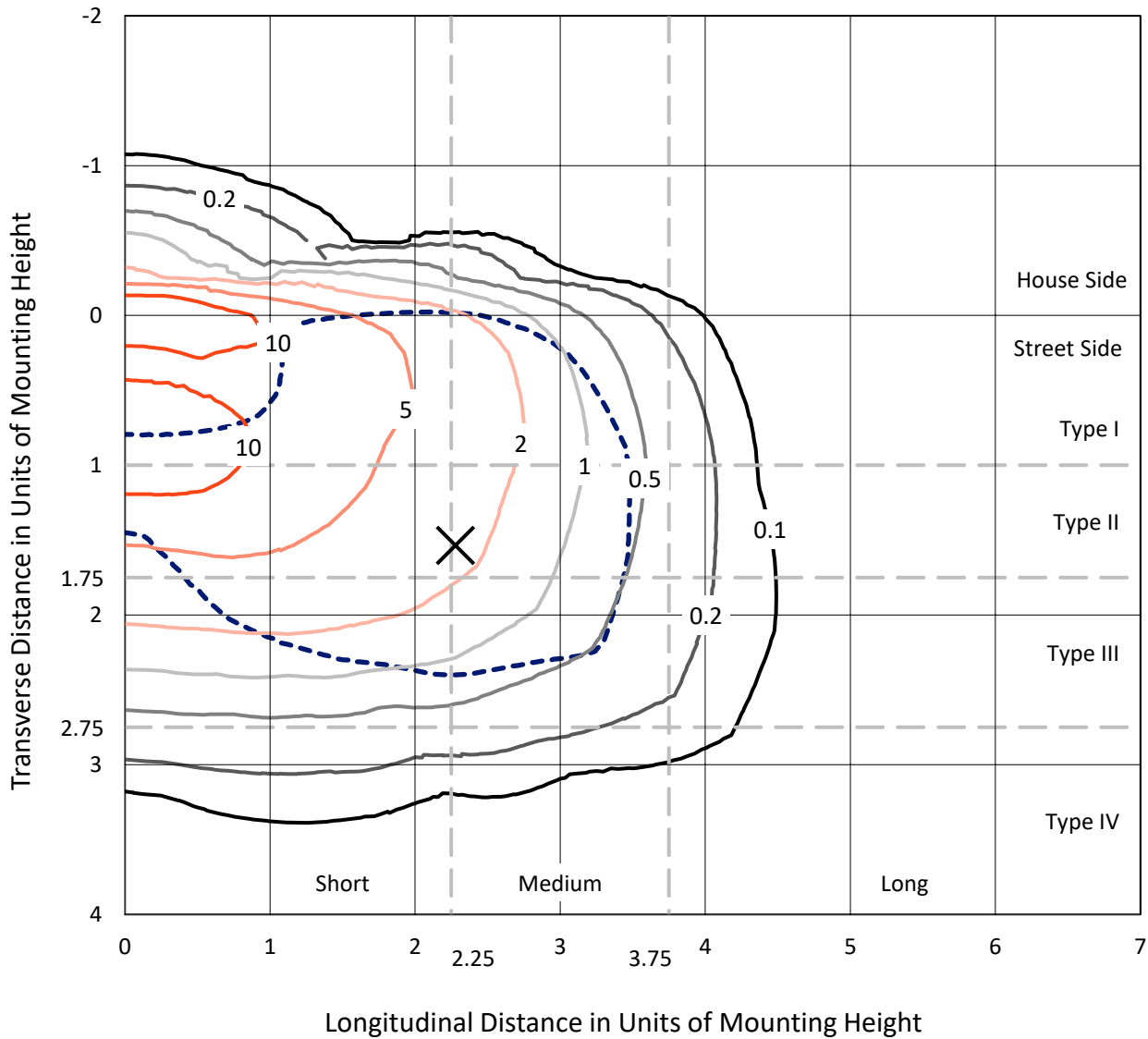
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

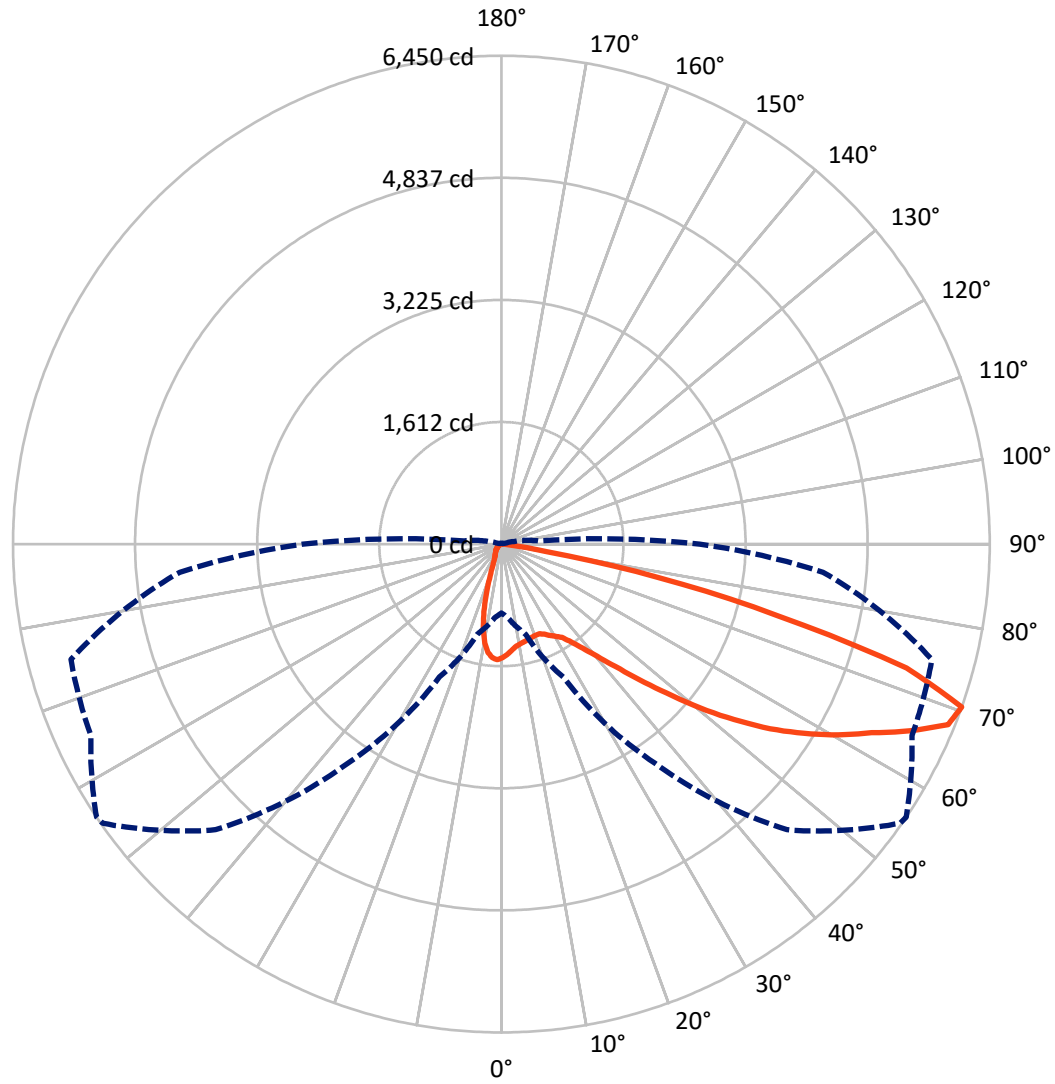
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 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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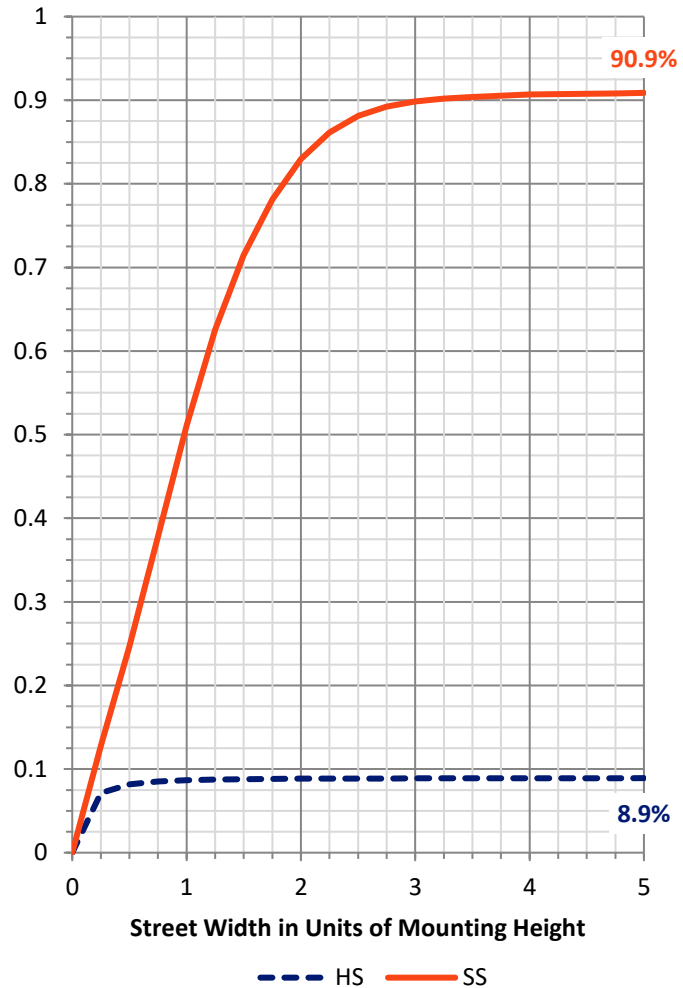
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.6	0.0	747.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	7575.7	0.0	7575.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	8323.3	0.0	8323.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	1.5
10°-20°	289.8	3.5
20°-30°	459.1	5.5
30°-40°	791.6	9.5
40°-50°	1336.8	16.1
50°-60°	1964.2	23.6
60°-70°	2328.7	28.0
70°-80°	993.0	11.9
80°-90°	31.2	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°	8323.3	100.0
0°-180°	8323.3	100.0

Coefficient of Utilization



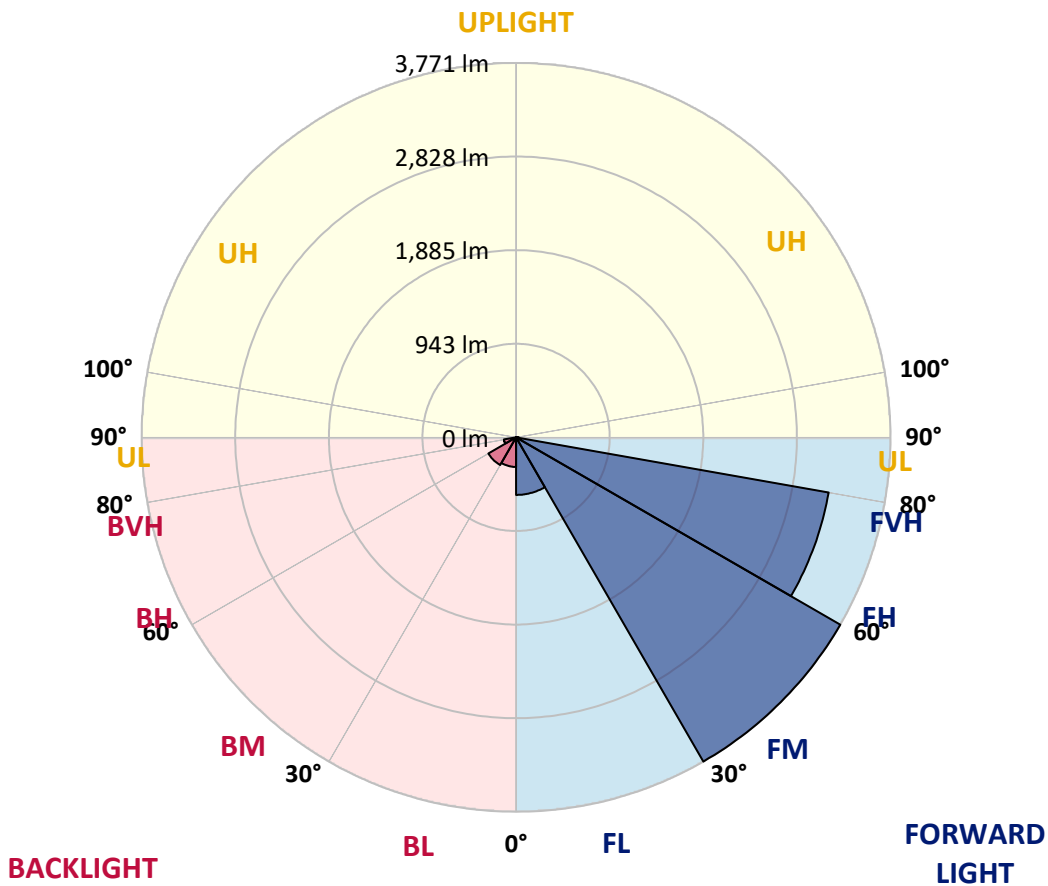
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.0	7.0			
FM (30°-60°)	3770.7	45.3			
FH (60°-80°)	3197.0	38.4			G2/5000
FVH (80°-90°)	28.0	0.3			G1/100
BL (0°-30°)	297.7	3.6	B1/500		
BM (30°-60°)	322.0	3.9	B1/1000		
BH (60°-80°)	124.7	1.5	B1/500		G1/500
BVH (80°-90°)	3.2	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°	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8
2.5°	1397.1	1394.8	1396.4	1407.8	1429.1	1439.0	1455.8	1458.9	1472.6	1490.1	1497.0
5°	1306.4	1298.8	1302.6	1318.6	1343.0	1370.4	1401.7	1410.1	1444.4	1483.2	1512.2
7.5°	1223.3	1214.9	1224.1	1249.2	1283.5	1313.3	1359.8	1365.1	1420.0	1488.6	1541.2
10°	1093.0	1095.3	1113.6	1157.8	1210.4	1272.1	1334.6	1342.2	1410.1	1506.1	1587.7
12.5°	993.1	987.8	1007.6	1057.9	1131.9	1221.8	1315.6	1325.5	1410.8	1532.8	1647.1
15°	946.7	945.1	953.5	990.1	1061.7	1167.7	1298.0	1311.0	1420.7	1557.2	1703.5
17.5°	948.2	945.9	945.1	966.5	1019.8	1127.3	1279.0	1295.7	1429.1	1583.9	1763.0
20°	1014.5	1003.8	984.8	974.9	1006.9	1101.4	1266.0	1285.1	1441.3	1612.1	1826.2
22.5°	1153.2	1157.0	1106.0	1052.6	1037.4	1104.4	1264.5	1286.6	1468.0	1656.3	1904.0
25°	1430.7	1424.6	1330.0	1210.4	1127.3	1139.5	1291.2	1317.8	1520.6	1719.5	1977.2
27.5°	1778.2	1783.6	1654.0	1463.4	1289.6	1211.9	1340.0	1366.6	1581.6	1759.2	2025.9
30°	2157.0	2151.7	2013.0	1801.8	1519.8	1332.3	1388.7	1412.4	1612.1	1780.5	2076.2
32.5°	2515.3	2503.1	2365.9	2144.8	1813.3	1522.1	1455.8	1469.5	1652.5	1827.0	2144.1
35°	2820.9	2820.1	2700.5	2465.0	2115.1	1759.9	1570.9	1582.3	1727.9	1900.9	2243.9
37.5°	3136.5	3125.8	2991.6	2776.7	2425.3	2020.6	1747.0	1742.4	1846.8	2009.9	2366.6
40°	3395.6	3388.7	3285.9	3079.3	2747.7	2308.7	1960.4	1946.7	1987.8	2160.8	2537.4
42.5°	3587.7	3588.4	3556.4	3430.7	3089.2	2641.8	2228.7	2207.3	2206.6	2388.7	2763.0
45°	3733.3	3743.2	3791.2	3772.1	3492.4	3029.8	2572.4	2550.3	2513.0	2684.5	3021.4
47.5°	3801.1	3814.1	3958.9	4035.1	3845.3	3414.7	2981.7	2935.2	2862.1	3077.8	3310.2
50°	3794.2	3817.1	4019.1	4250.8	4165.4	3804.9	3427.6	3405.5	3285.9	3493.9	3596.1
52.5°	3638.7	3687.5	4022.9	4381.9	4411.6	4164.7	3888.8	3847.6	3789.7	3928.4	3864.4
55°	3216.5	3275.9	3862.1	4423.8	4603.7	4478.7	4340.0	4306.4	4210.4	4338.5	4098.4
57.5°	2987.1	3038.1	3523.7	4403.2	4766.8	4769.1	4741.7	4714.2	4634.9	4743.9	4372.7
60°	2849.1	2900.2	3343.0	4327.8	4914.7	5075.5	5118.9	5115.9	5001.6	5205.1	4694.4
62.5°	2647.1	2717.2	3154.8	4131.9	5019.9	5377.3	5508.4	5487.9	5360.6	5685.3	5013.0
65°	2239.3	2300.3	2769.1	3808.7	4958.1	5627.3	5930.7	5941.4	5794.3	6137.2	5264.5
67.5°	1570.1	1615.1	2080.8	3130.4	4538.9	5709.7	6362.9	6362.1	6111.3	6369.0	5153.2
70°	910.1	971.8	1229.4	1935.2	3531.3	5335.4	6427.6	6449.7	5982.5	5885.0	4264.5
72.5°	352.1	403.2	696.7	1028.2	1841.5	4086.9	5529.0	5593.8	5006.9	4539.7	2968.0
75°	105.2	117.4	327.7	547.3	739.3	1974.1	3743.2	3761.5	3434.5	2831.6	1521.4
77.5°	78.5	86.9	143.3	276.7	259.1	598.3	1936.8	2115.1	1823.2	1011.4	419.2
80°	53.4	63.3	102.1	134.9	96.0	159.3	544.2	597.6	556.4	227.1	105.2
82.5°	23.6	30.5	72.4	67.8	35.1	45.7	167.7	178.4	115.1	68.6	36.6
85°	2.3	3.0	27.4	29.7	13.0	10.7	35.1	35.1	25.2	23.6	15.2
87.5°	0.0	0.0	0.8	1.5	1.5	2.3	3.0	3.8	4.6	6.1	7.6
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°	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8	1500.8
2.5°	1514.5	1505.3	1516.8	1525.9	1528.2	1511.4	1501.5	1487.1	1484.0	1484.8	1481.0
5°	1535.1	1530.5	1538.9	1529.0	1503.1	1454.3	1412.4	1365.9	1340.7	1326.2	1324.7
7.5°	1573.2	1570.9	1561.8	1516.8	1436.0	1327.8	1223.3	1121.2	1057.9	1035.1	1031.3
10°	1629.6	1625.0	1587.7	1481.0	1308.7	1100.6	925.3	779.0	689.8	663.9	631.9
12.5°	1694.4	1685.2	1603.7	1404.0	1116.6	828.5	609.8	445.9	368.9	346.0	346.0
15°	1756.9	1737.1	1594.5	1276.7	880.3	538.9	340.7	257.6	234.0	227.9	227.9
17.5°	1820.9	1782.8	1558.7	1102.9	608.2	318.6	227.1	211.1	208.1	208.8	209.6
20°	1881.1	1821.7	1495.4	894.1	388.0	222.6	203.5	199.7	198.2	199.7	198.9
22.5°	1946.7	1857.5	1399.4	666.2	252.3	200.5	193.6	190.6	189.0	191.3	191.3
25°	2011.4	1883.4	1272.1	448.2	200.5	186.7	182.9	179.9	178.4	179.1	179.1
27.5°	2045.0	1873.5	1105.2	285.8	179.9	173.0	169.2	165.4	163.1	162.3	163.1
30°	2067.9	1843.0	900.9	203.5	163.1	154.7	150.9	147.9	141.8	138.0	139.5
32.5°	2103.7	1812.5	679.1	170.7	149.4	136.4	130.3	122.7	114.3	110.5	110.5
35°	2146.4	1770.6	476.4	154.0	134.9	121.2	109.8	96.8	86.9	83.8	83.8
37.5°	2202.8	1731.0	317.1	142.5	122.7	108.2	92.2	77.0	66.3	64.8	64.0
40°	2287.4	1697.4	223.3	134.1	112.0	94.5	75.5	59.5	51.8	49.5	49.5
42.5°	2397.1	1663.1	176.8	125.8	102.9	81.6	60.2	47.3	41.2	39.6	38.9
45°	2532.8	1622.7	154.0	118.1	93.8	67.8	48.0	39.6	35.1	33.5	33.5
47.5°	2679.9	1567.8	143.3	108.2	83.1	54.9	40.4	34.3	32.0	31.3	30.5
50°	2824.7	1493.9	134.1	99.1	70.9	45.0	35.1	31.3	29.7	29.0	29.0
52.5°	2951.2	1407.8	122.7	88.4	57.9	38.9	31.3	29.0	27.4	25.9	25.2
55°	3059.5	1314.0	108.2	76.2	47.3	34.3	29.0	26.7	25.2	23.6	22.9
57.5°	3199.0	1260.7	86.9	61.7	38.9	30.5	26.7	24.4	22.9	20.6	20.6
60°	3353.7	1221.8	64.8	48.8	33.5	28.2	24.4	22.1	20.6	18.3	18.3
62.5°	3477.9	1163.9	51.1	39.6	29.0	25.2	22.1	19.8	18.3	16.0	16.0
65°	3525.2	1044.2	41.9	31.3	23.6	22.1	19.8	18.3	16.0	13.7	13.7
67.5°	3311.8	804.9	35.1	25.2	19.8	19.1	17.5	16.8	13.7	12.2	11.4
70°	2622.7	490.9	29.0	20.6	16.8	16.0	16.0	14.5	12.2	11.4	10.7
72.5°	1797.3	253.1	23.6	16.8	14.5	14.5	13.7	13.0	11.4	10.7	10.7
75°	933.7	84.6	18.3	13.0	11.4	12.2	12.2	11.4	10.7	10.7	9.9
77.5°	267.5	38.1	13.7	9.9	9.1	9.1	9.9	9.9	9.9	9.1	9.1
80°	69.4	22.1	9.9	7.6	7.6	7.6	7.6	8.4	9.1	8.4	8.4
82.5°	28.2	12.2	6.9	6.1	6.1	6.1	6.1	6.9	7.6	7.6	7.6
85°	17.5	6.1	5.3	5.3	5.3	4.6	4.6	5.3	5.3	6.1	6.1
87.5°	10.7	4.6	4.6	4.6	4.6	3.8	3.8	3.8	3.8	3.8	3.8
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)