

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: P631066

Luminaire Tested: GWS-SA1E-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5972.3 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

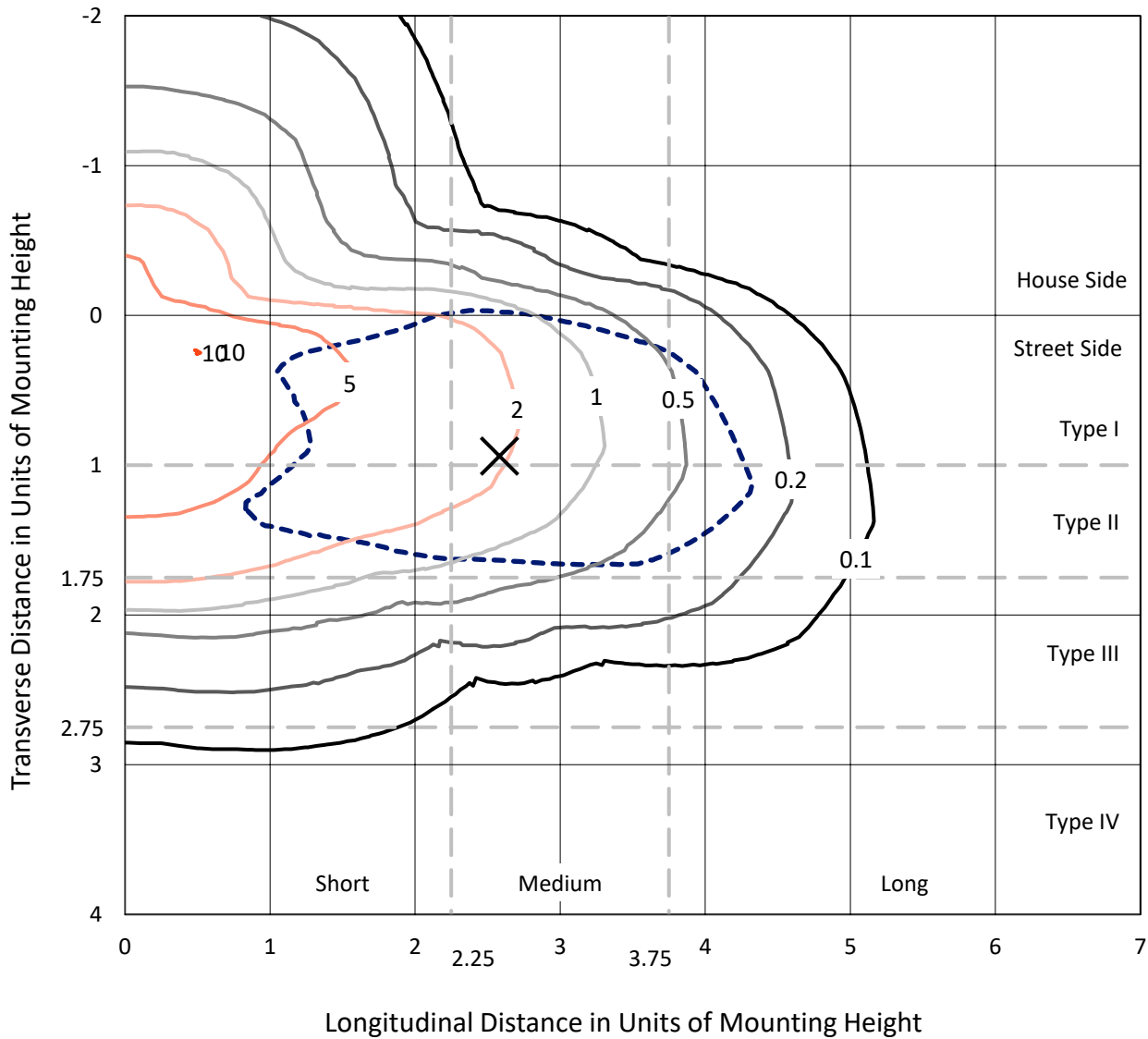
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

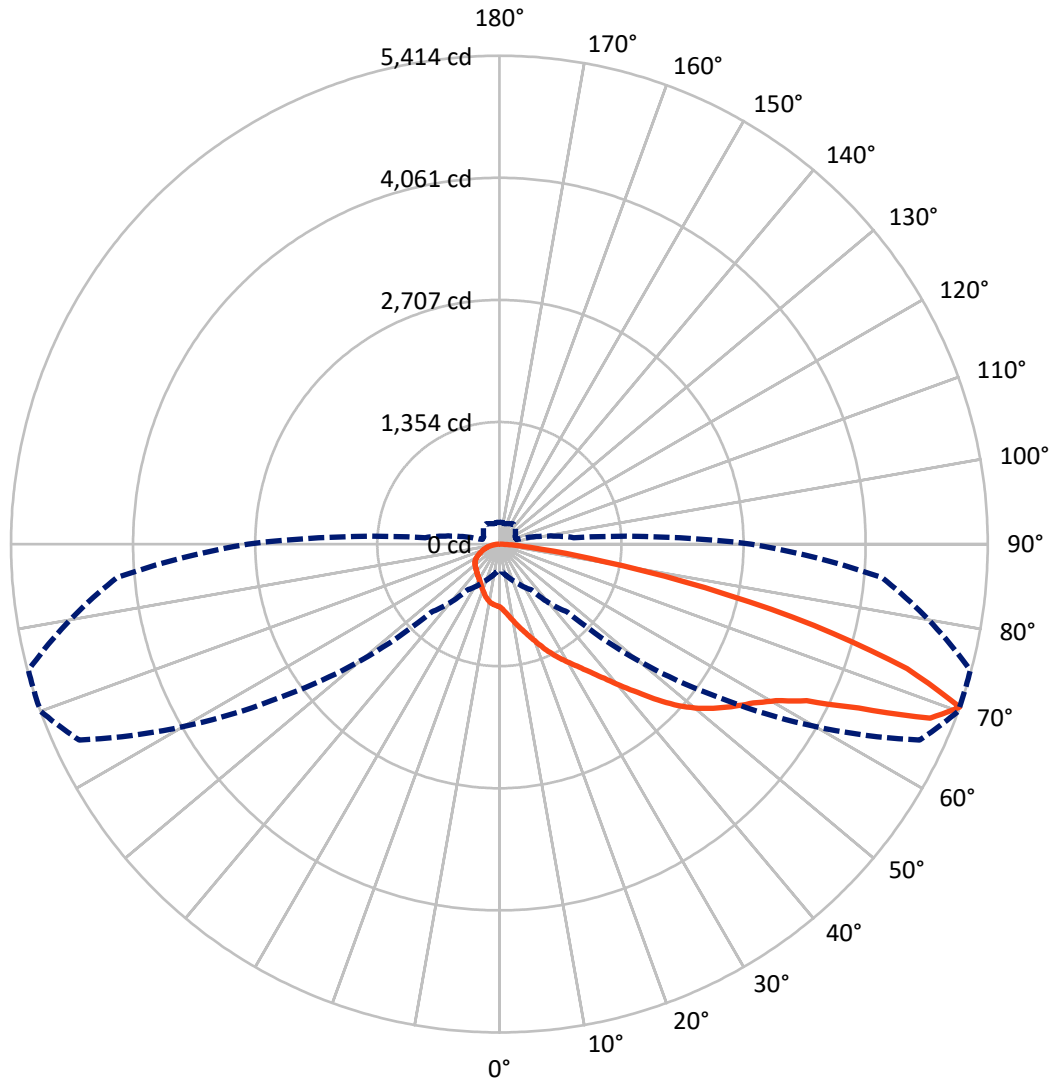
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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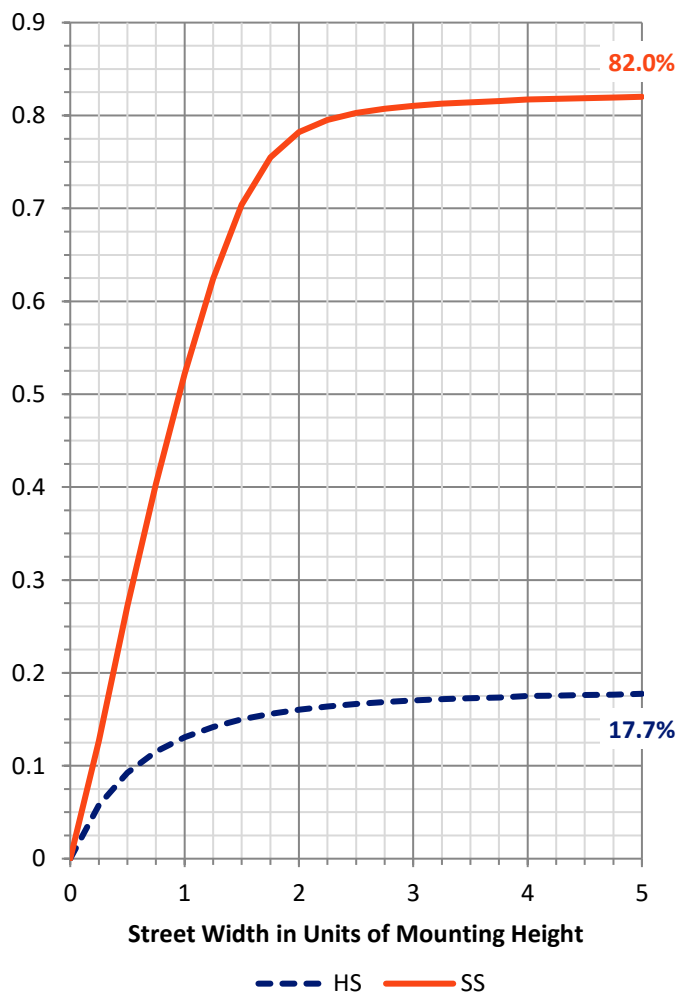
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1070.2	0.0	1070.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	4902.0	0.0	4902.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	5972.3	0.0	5972.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.2
10°-20°	230.3	3.9
20°-30°	407.9	6.8
30°-40°	614.0	10.3
40°-50°	928.9	15.6
50°-60°	1330.7	22.3
60°-70°	1470.9	24.6
70°-80°	830.1	13.9
80°-90°	88.8	1.5
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°	5972.3	100.0
0°-180°	5972.3	100.0

Coefficient of Utilization



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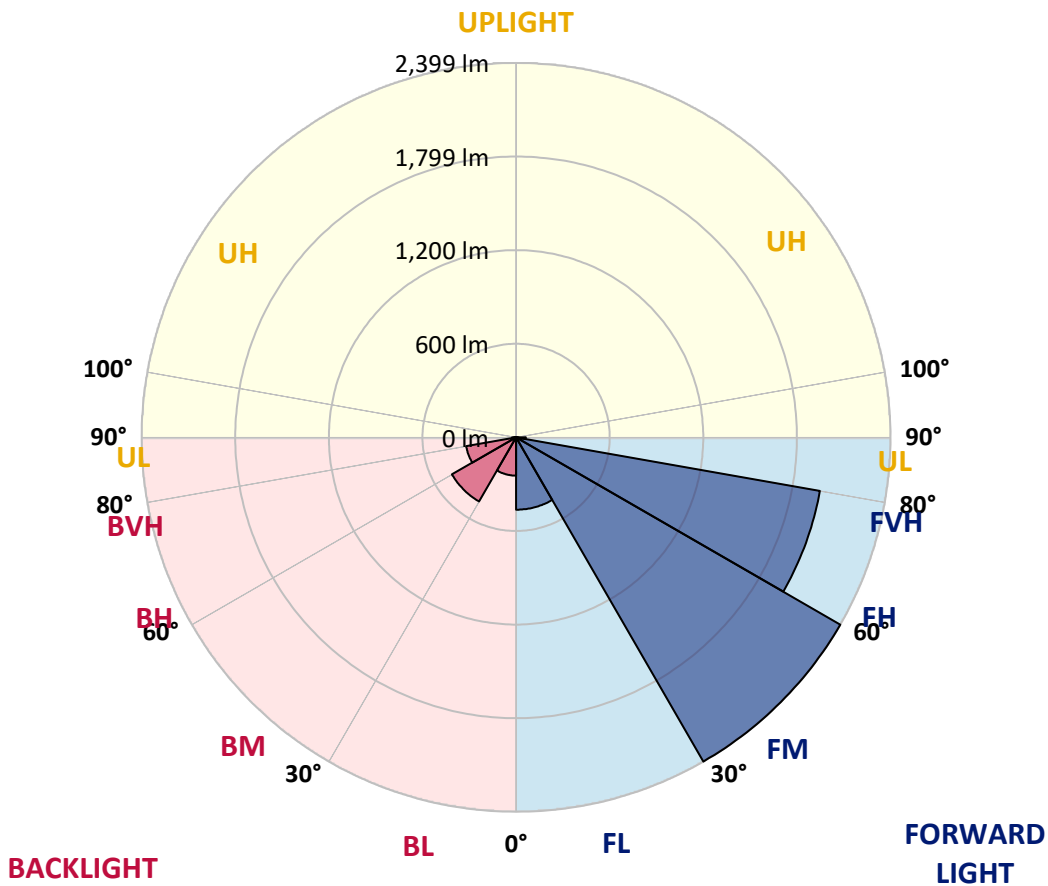
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.6	7.8			
FM (30°-60°)	2399.1	40.2			
FH (60°-80°)	1976.6	33.1			G2/5000
FVH (80°-90°)	62.8	1.1			G1/100
BL (0°-30°)	245.4	4.1	B1/500		
BM (30°-60°)	474.5	7.9	B1/1000		
BH (60°-80°)	324.4	5.4	B1/500		G1/500
BVH (80°-90°)	26.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5
2.5°	771.6	770.3	771.1	770.3	765.5	753.9	744.4	732.3	724.1	719.4	708.1
5°	862.2	860.9	857.9	853.6	844.9	829.0	805.2	778.9	762.9	750.9	727.1
7.5°	927.4	927.4	926.9	921.8	915.7	898.9	870.8	836.3	813.0	792.3	753.5
10°	960.6	962.7	965.8	973.1	971.8	962.7	936.4	899.3	870.0	845.8	788.0
12.5°	978.7	980.0	985.2	1000.3	1015.8	1018.0	1002.5	963.6	931.7	899.3	826.4
15°	1002.0	1002.5	1009.4	1027.5	1050.4	1073.2	1069.3	1030.5	997.7	961.9	869.1
17.5°	1020.1	1023.2	1035.7	1056.8	1085.3	1116.8	1135.8	1111.6	1071.1	1030.1	915.7
20°	1026.6	1028.8	1045.2	1077.5	1116.4	1160.8	1203.1	1196.6	1155.6	1107.3	968.4
22.5°	1049.9	1049.9	1062.0	1089.2	1134.9	1199.7	1268.3	1285.1	1248.9	1192.3	1024.9
25°	1101.3	1099.5	1105.2	1116.4	1150.9	1230.7	1332.6	1383.1	1342.5	1279.1	1081.4
27.5°	1171.6	1170.7	1170.3	1172.0	1183.7	1257.9	1386.9	1474.5	1434.0	1362.3	1131.9
30°	1248.0	1245.4	1251.0	1245.8	1243.2	1290.3	1433.1	1556.5	1525.0	1444.8	1173.8
32.5°	1352.0	1347.2	1346.0	1329.1	1318.8	1340.8	1470.2	1649.7	1624.7	1533.7	1220.8
35°	1489.2	1484.9	1462.9	1436.1	1405.5	1415.9	1516.4	1740.8	1742.5	1645.0	1282.5
37.5°	1627.7	1628.6	1611.3	1548.3	1516.8	1510.8	1586.7	1851.7	1888.8	1777.9	1362.3
40°	1743.0	1748.1	1748.1	1681.7	1634.6	1629.0	1685.6	1983.3	2057.1	1941.0	1463.3
42.5°	1830.6	1835.3	1850.4	1802.5	1752.9	1772.3	1805.5	2115.4	2247.9	2142.6	1591.1
45°	1926.8	1930.7	1938.9	1911.3	1882.3	1934.1	1941.5	2273.3	2466.2	2368.7	1739.5
47.5°	2054.5	2051.1	2051.9	2031.7	2009.2	2092.9	2091.2	2406.2	2677.2	2616.4	1900.5
50°	2213.3	2219.8	2213.8	2173.6	2147.3	2223.7	2233.6	2553.4	2862.8	2861.5	2062.7
52.5°	2366.1	2368.7	2400.6	2402.3	2348.4	2332.4	2358.3	2701.8	3019.4	3085.9	2218.5
55°	2373.9	2383.8	2479.6	2548.6	2635.8	2507.6	2484.3	2843.4	3170.9	3305.5	2380.3
57.5°	2208.6	2224.6	2387.2	2536.1	2778.6	2808.4	2700.1	3026.3	3322.4	3521.7	2567.6
60°	1855.6	1888.8	2109.8	2337.6	2714.3	3024.6	3141.6	3274.9	3521.3	3742.7	2795.0
62.5°	1185.0	1197.9	1507.8	1889.3	2424.8	3003.5	3622.3	3712.9	3824.2	4030.5	3145.4
65°	593.4	634.8	816.5	1127.6	1748.6	2646.6	3865.2	4515.1	4378.8	4523.3	3713.3
67.5°	402.6	416.0	507.9	677.5	1025.3	1875.0	3714.6	5190.9	5150.8	5174.5	4318.8
70°	296.9	305.5	378.0	479.9	620.1	1064.6	2957.3	5140.0	5414.0	5405.4	4255.3
72.5°	216.6	220.9	275.7	366.4	459.6	550.6	1806.0	4152.2	4726.1	4975.1	3721.5
75°	157.5	162.7	191.6	274.0	357.3	343.5	891.5	2999.2	3604.2	4083.2	3031.9
77.5°	117.4	123.8	137.2	171.8	250.3	246.0	385.4	1947.5	2331.1	2666.9	1841.8
80°	84.6	85.9	93.6	110.0	158.8	144.1	183.4	1015.4	1164.3	1275.6	722.0
82.5°	51.4	52.6	62.6	67.8	98.4	90.6	95.4	328.8	471.2	500.1	269.7
85°	15.1	16.0	28.5	31.1	41.0	38.8	38.4	133.8	159.7	204.1	106.2
87.5°	0.0	0.0	0.0	0.0	0.4	2.6	4.7	23.7	35.8	49.6	25.9
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°	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5	696.5
2.5°	703.8	693.9	688.7	679.7	673.2	666.7	660.2	654.2	651.6	647.7	648.6
5°	716.3	700.8	685.3	667.6	652.5	640.0	628.7	618.8	614.5	610.6	612.3
7.5°	735.3	712.0	682.3	649.9	626.2	608.9	597.2	590.3	588.2	585.2	585.2
10°	759.5	724.5	672.3	626.2	597.7	583.9	578.7	578.3	580.4	580.8	580.0
12.5°	786.3	736.6	657.7	598.1	573.9	569.6	573.5	580.8	588.2	592.1	591.2
15°	813.9	744.4	632.6	571.3	556.7	562.3	574.8	589.5	603.7	611.1	610.6
17.5°	839.8	746.1	600.3	545.5	541.6	555.8	577.4	600.3	619.7	630.0	630.5
20°	868.7	743.1	567.0	522.2	526.5	549.8	578.3	605.9	628.7	639.1	641.7
22.5°	895.0	732.7	534.7	500.1	513.5	542.4	571.3	597.2	617.5	627.4	630.9
25°	918.7	712.9	499.3	481.6	503.6	532.1	554.1	572.2	586.5	592.5	597.2
27.5°	931.7	683.1	472.5	466.9	494.1	517.4	529.5	535.1	539.8	538.1	541.6
30°	934.3	646.0	449.2	455.3	479.9	497.1	499.7	494.1	485.9	472.5	475.5
32.5°	931.7	603.3	429.8	442.8	463.9	474.3	470.8	456.1	436.3	415.6	416.9
35°	932.5	560.1	413.8	428.9	445.3	451.0	442.3	422.0	400.9	381.9	381.0
37.5°	942.0	523.9	400.5	415.6	427.2	428.1	418.6	397.4	386.7	372.4	370.7
40°	968.4	497.1	388.4	402.2	409.5	409.1	398.3	383.2	390.5	385.8	384.5
42.5°	1011.5	480.7	378.5	387.9	393.1	394.0	385.4	375.9	391.8	385.8	383.6
45°	1081.0	479.9	371.5	373.7	381.9	387.9	381.9	371.1	377.2	347.8	342.2
47.5°	1163.4	494.5	366.4	361.2	375.4	386.2	376.7	359.5	347.0	320.2	316.3
50°	1262.7	524.3	361.6	347.8	365.9	379.7	370.3	346.5	327.5	313.3	311.1
52.5°	1380.5	563.6	355.6	332.7	351.7	376.3	370.3	345.2	320.2	307.3	305.1
55°	1503.9	608.9	348.7	314.6	335.7	377.2	373.3	336.2	314.6	307.7	306.0
57.5°	1657.1	663.3	336.2	293.4	321.5	369.4	361.2	331.0	310.7	305.1	303.4
60°	1856.0	744.0	312.4	271.9	305.1	355.6	350.4	322.4	300.3	295.6	294.3
62.5°	2171.0	880.8	283.5	251.2	285.7	326.7	334.4	306.0	287.4	287.0	286.5
65°	2684.6	1045.2	249.4	232.6	265.4	302.9	313.3	289.1	274.0	278.8	278.3
67.5°	3044.5	1059.4	221.4	213.2	241.7	277.0	292.1	271.9	255.5	264.5	264.1
70°	2788.6	826.4	197.2	192.9	216.2	249.0	269.3	250.3	233.9	242.5	240.8
72.5°	2351.9	633.5	174.3	171.8	190.3	219.7	239.9	228.7	211.5	211.5	207.6
75°	1890.1	522.6	150.2	148.9	161.4	189.9	212.7	193.8	177.8	176.9	174.3
77.5°	1084.0	342.6	126.0	125.1	129.0	158.8	165.3	161.4	149.3	143.7	142.0
80°	432.0	178.2	99.3	93.6	97.5	116.5	130.3	123.8	113.5	106.6	102.7
82.5°	167.4	89.3	69.9	61.3	66.9	84.1	94.5	92.3	85.4	69.9	65.6
85°	68.2	43.6	41.9	35.4	38.8	45.3	54.4	47.0	38.8	27.6	26.3
87.5°	18.1	16.0	15.5	9.5	7.3	2.2	0.4	0.0	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)