

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: P633768

Luminaire Tested: GWS-SA2F-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11746.6 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

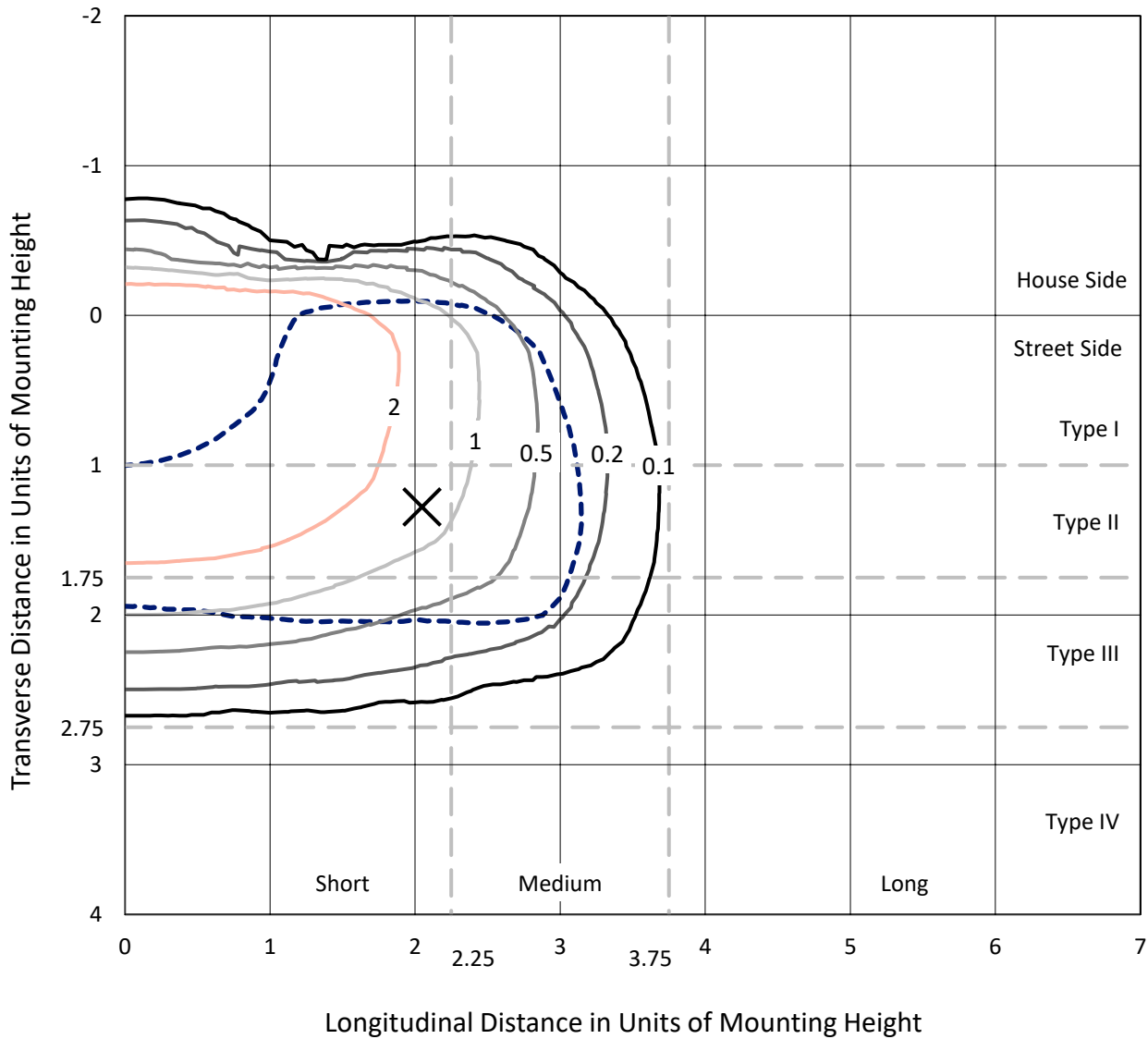
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

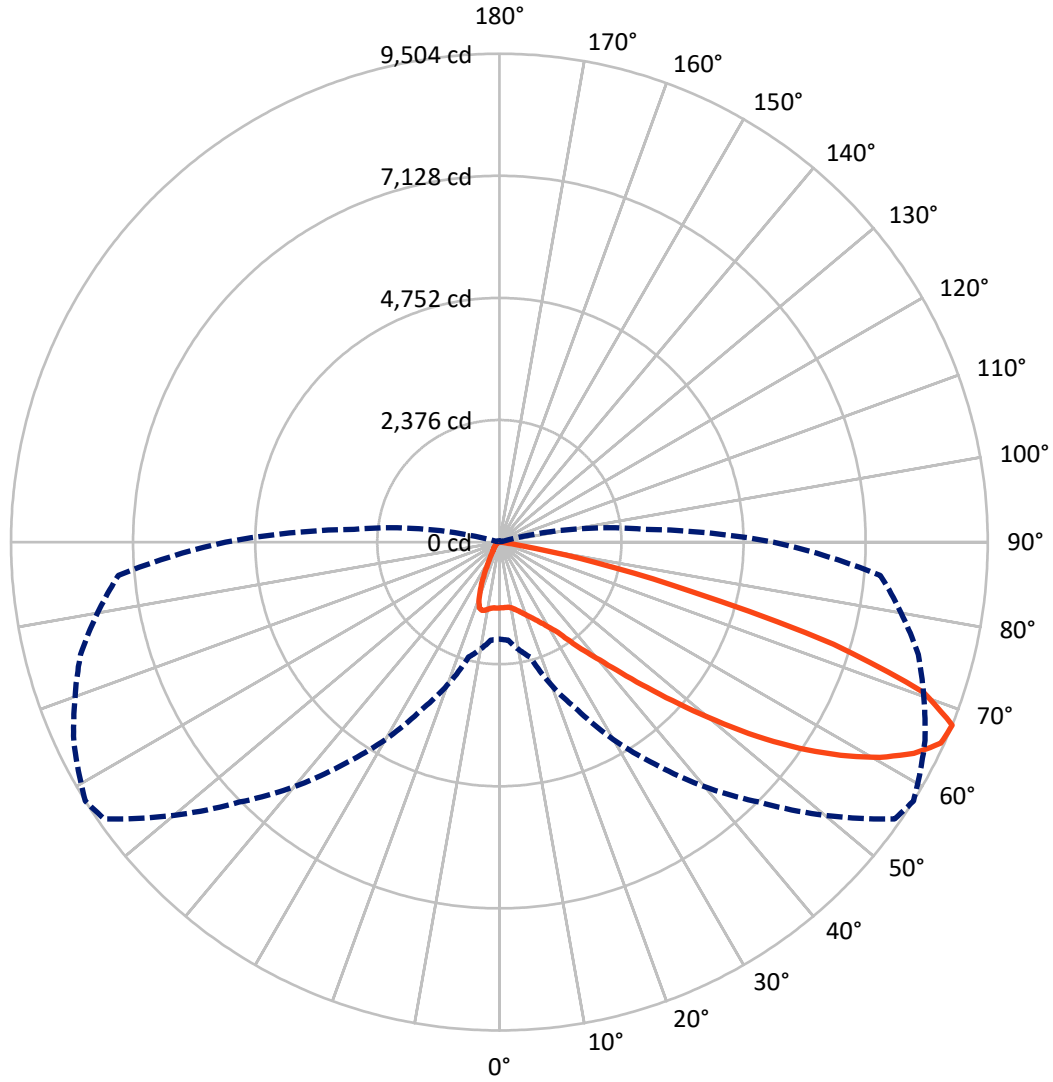
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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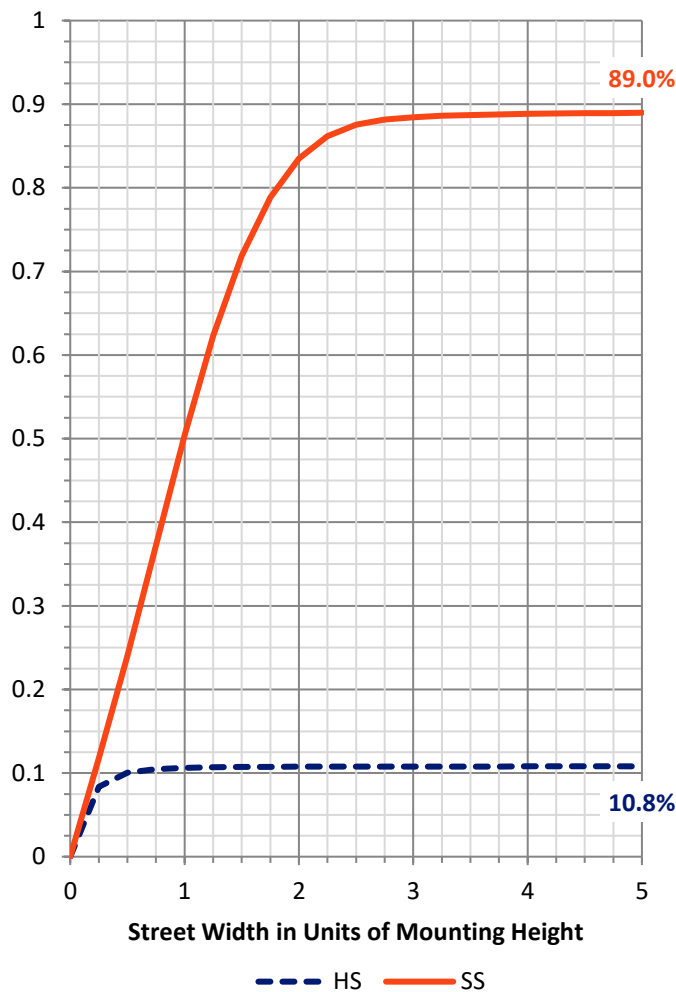
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1281.5	0.0	1281.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	10465.1	0.0	10465.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	11746.6	0.0	11746.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	1.0
10°-20°	337.6	2.9
20°-30°	589.3	5.0
30°-40°	1052.4	9.0
40°-50°	1923.6	16.4
50°-60°	3199.2	27.2
60°-70°	3474.9	29.6
70°-80°	1020.3	8.7
80°-90°	29.1	0.2
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°	11746.6	100.0
0°-180°	11746.6	100.0

Coefficient of Utilization



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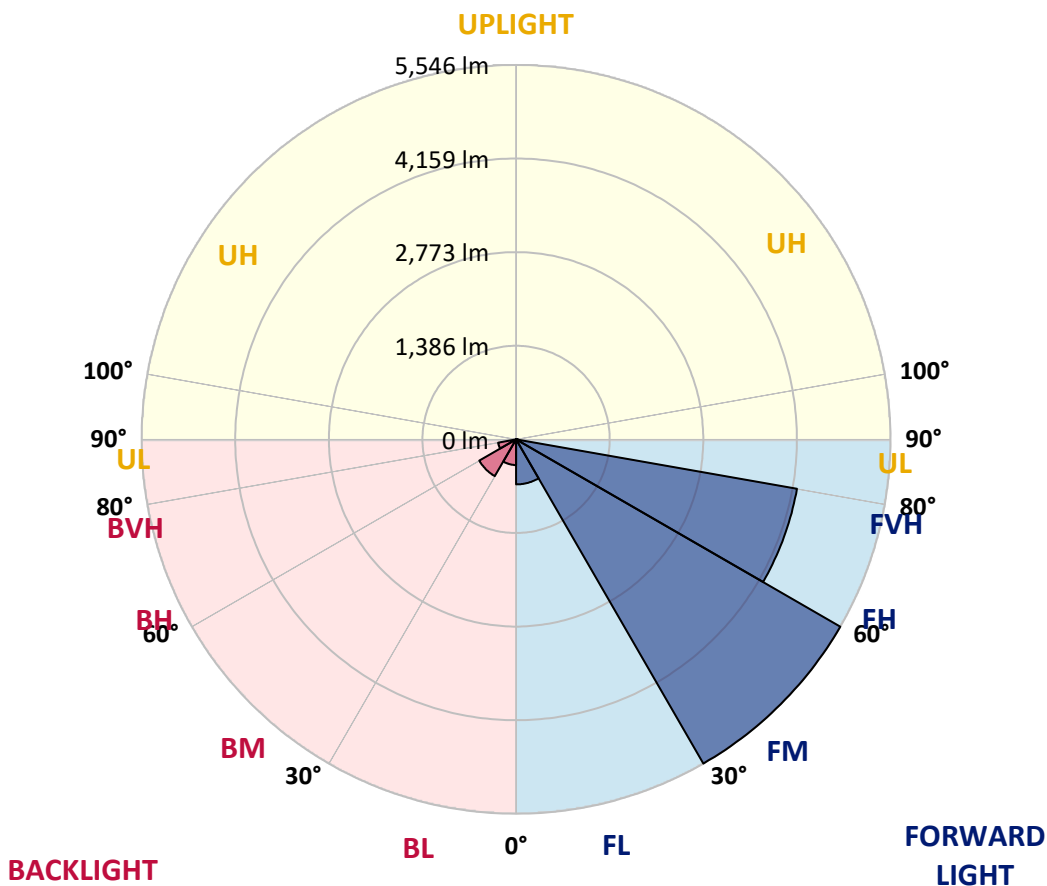
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.0	5.7			
FM (30°-60°)	5545.8	47.2			
FH (60°-80°)	4224.6	36.0			G2/5000
FVH (80°-90°)	27.6	0.2			G1/100
BL (0°-30°)	380.1	3.2	B1/500		
BM (30°-60°)	629.4	5.4	B1/1000		
BH (60°-80°)	270.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0
2.5°	1255.9	1253.6	1253.6	1262.8	1264.0	1268.6	1278.9	1280.0	1285.8	1283.5	1275.4
5°	1190.6	1191.7	1198.6	1214.7	1228.4	1245.6	1270.9	1276.6	1289.2	1296.1	1291.5
7.5°	1129.8	1130.9	1141.2	1166.5	1192.9	1227.3	1268.6	1280.0	1305.3	1323.6	1324.8
10°	1106.8	1105.7	1116.0	1144.7	1179.1	1227.3	1286.9	1301.8	1339.7	1371.8	1377.5
12.5°	1113.7	1112.6	1122.9	1149.3	1187.1	1247.9	1319.0	1339.7	1387.8	1437.2	1447.5
15°	1141.2	1140.1	1147.0	1168.8	1210.1	1273.1	1360.3	1391.3	1452.1	1511.7	1527.8
17.5°	1223.8	1218.1	1211.2	1213.5	1237.6	1303.0	1413.1	1450.9	1526.6	1597.7	1611.5
20°	1370.6	1355.7	1337.4	1313.3	1301.8	1346.6	1473.9	1517.5	1609.2	1690.6	1692.9
22.5°	1592.0	1586.3	1543.8	1473.9	1424.5	1425.7	1545.0	1595.4	1707.9	1797.3	1784.7
25°	1900.5	1897.1	1831.7	1717.0	1588.6	1545.0	1635.6	1687.2	1824.8	1920.0	1879.9
27.5°	2283.6	2259.5	2182.7	2027.9	1836.3	1699.8	1750.3	1796.2	1948.7	2038.2	1962.5
30°	2617.4	2618.6	2546.3	2384.6	2168.9	1932.7	1890.2	1930.4	2062.3	2156.3	2064.6
32.5°	2938.6	2948.9	2869.7	2724.1	2487.8	2236.6	2090.9	2097.8	2207.9	2310.0	2198.8
35°	3236.8	3244.8	3189.7	3065.9	2845.7	2554.3	2370.8	2367.4	2427.0	2531.4	2385.7
37.5°	3570.5	3578.6	3524.7	3413.4	3207.0	2917.9	2688.5	2683.9	2708.0	2792.9	2626.6
40°	3926.1	3941.0	3881.4	3787.3	3590.0	3345.7	3057.8	3016.6	2992.5	3092.3	2938.6
42.5°	4286.3	4309.2	4288.6	4194.5	4025.9	3824.0	3537.3	3473.1	3421.4	3546.5	3383.6
45°	4733.6	4761.1	4751.9	4679.7	4548.9	4384.9	4114.2	4039.7	4015.6	4131.4	3937.6
47.5°	5163.7	5193.5	5226.8	5210.7	5117.8	5042.1	4741.6	4699.2	4692.3	4816.2	4515.7
50°	5483.7	5511.2	5638.5	5730.3	5793.4	5777.3	5517.0	5453.9	5443.6	5522.7	5125.8
52.5°	5713.1	5739.5	5915.0	6201.7	6433.4	6559.6	6296.9	6283.2	6226.9	6199.4	5697.0
55°	5890.9	5927.6	6112.3	6545.8	7012.6	7292.5	7128.5	7079.2	6934.6	6776.4	6226.9
57.5°	5926.4	5941.4	6201.7	6786.7	7462.2	7915.3	7915.3	7829.3	7550.6	7331.5	6839.4
60°	5607.6	5653.5	6005.6	6767.2	7654.9	8322.5	8567.9	8508.3	8132.1	7862.5	7429.0
62.5°	4899.9	4951.5	5380.5	6300.4	7462.2	8406.2	9062.3	9053.1	8628.7	8301.8	7917.6
65°	3757.5	3795.4	4169.3	5270.4	6647.9	8083.9	9415.5	9440.8	9021.0	8592.0	8086.2
67.5°	1887.9	1914.3	2318.0	3600.4	5269.2	7156.0	9391.5	9503.9	9140.3	8438.3	7442.7
70°	659.5	685.9	876.3	1545.0	3207.0	5464.2	8579.4	8762.9	8439.5	7203.0	5490.6
72.5°	226.0	238.6	363.6	573.5	1247.9	3239.1	6524.0	6800.4	6221.2	4835.7	3155.3
75°	128.5	136.5	195.0	310.8	523.0	1065.5	3701.3	3871.1	3626.7	2635.8	1298.4
77.5°	87.2	94.1	121.6	176.6	289.0	342.9	1509.4	1900.5	1657.4	860.2	331.5
80°	51.6	56.2	74.6	104.4	148.0	133.0	323.4	430.1	554.0	256.9	99.8
82.5°	24.1	27.5	48.2	68.8	74.6	56.2	95.2	115.8	156.0	126.2	41.3
85°	0.0	0.0	16.1	28.7	27.5	16.1	26.4	28.7	42.4	63.1	16.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	2.3	3.4	6.9	12.6	6.9
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°	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0	1280.0
2.5°	1284.6	1276.6	1285.8	1281.2	1285.8	1284.6	1275.4	1269.7	1269.7	1259.4	1255.9
5°	1300.7	1292.6	1294.9	1284.6	1282.3	1276.6	1265.1	1260.5	1260.5	1250.2	1246.8
7.5°	1336.2	1323.6	1321.3	1300.7	1291.5	1275.4	1254.8	1246.8	1245.6	1235.3	1231.9
10°	1392.4	1377.5	1367.2	1340.8	1314.4	1282.3	1238.7	1202.0	1181.4	1153.9	1151.6
12.5°	1461.3	1442.9	1426.8	1386.7	1343.1	1270.9	1142.4	1008.2	925.6	860.2	864.8
15°	1538.1	1520.9	1495.7	1434.9	1345.4	1157.3	888.9	682.5	581.5	527.6	525.3
17.5°	1621.8	1596.6	1555.3	1472.7	1273.1	884.3	578.1	408.3	355.6	337.2	332.6
20°	1699.8	1668.9	1617.2	1480.7	1064.4	598.7	361.3	316.6	307.4	301.7	301.7
22.5°	1782.4	1743.4	1666.6	1418.8	791.4	383.1	307.4	297.1	290.2	282.2	281.0
25°	1866.1	1815.7	1711.3	1257.1	518.4	301.7	287.9	276.4	263.8	251.2	247.7
27.5°	1937.2	1871.9	1745.7	1016.2	332.6	271.8	262.7	243.2	226.0	212.2	209.9
30°	2022.1	1938.4	1760.6	743.2	261.5	239.7	226.0	205.3	184.7	170.9	166.3
32.5°	2135.7	2043.9	1737.7	484.0	231.7	211.0	189.3	165.2	144.5	129.6	127.3
35°	2312.3	2203.3	1632.2	308.5	209.9	182.4	156.0	130.8	113.6	102.1	99.8
37.5°	2527.9	2427.0	1459.0	231.7	188.1	158.3	127.3	103.2	90.6	82.6	80.3
40°	2847.9	2706.9	1244.5	203.0	166.3	134.2	104.4	84.9	75.7	68.8	66.5
42.5°	3263.2	3037.2	997.9	184.7	145.7	112.4	84.9	70.0	61.9	57.3	56.2
45°	3748.3	3359.5	737.5	166.3	126.2	92.9	70.0	57.3	51.6	48.2	47.0
47.5°	4245.0	3641.7	509.3	146.8	107.8	76.8	58.5	49.3	44.7	40.1	39.0
50°	4774.9	3880.2	347.5	127.3	91.8	63.1	50.5	44.7	39.0	35.6	34.4
52.5°	5163.7	3968.5	242.0	110.1	78.0	53.9	44.7	40.1	35.6	31.0	29.8
55°	5522.7	3966.3	183.5	92.9	66.5	47.0	40.1	35.6	31.0	27.5	26.4
57.5°	5880.6	3935.3	144.5	79.1	57.3	42.4	35.6	31.0	28.7	24.1	22.9
60°	6112.3	3818.3	112.4	66.5	49.3	36.7	31.0	27.5	24.1	20.6	19.5
62.5°	6235.0	3655.4	86.0	52.8	40.1	32.1	27.5	24.1	20.6	17.2	16.1
65°	6068.7	3366.4	67.7	41.3	31.0	27.5	22.9	19.5	16.1	12.6	11.5
67.5°	5331.2	2838.8	52.8	33.3	24.1	20.6	19.5	16.1	11.5	9.2	8.0
70°	3767.8	1944.1	41.3	25.2	18.4	16.1	14.9	12.6	9.2	6.9	5.7
72.5°	2068.0	980.7	29.8	18.4	13.8	12.6	11.5	10.3	8.0	5.7	5.7
75°	796.0	269.5	21.8	12.6	9.2	9.2	8.0	8.0	6.9	4.6	4.6
77.5°	207.6	80.3	13.8	8.0	5.7	5.7	5.7	4.6	4.6	3.4	3.4
80°	66.5	26.4	8.0	5.7	4.6	3.4	3.4	2.3	3.4	2.3	2.3
82.5°	21.8	9.2	4.6	4.6	3.4	2.3	2.3	1.1	1.1	0.0	0.0
85°	8.0	4.6	3.4	2.3	2.3	2.3	1.1	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	2.3	2.3	2.3	1.1	0.0	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)