

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: P631589

Luminaire Tested: GWS-SA2B-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4262.9 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

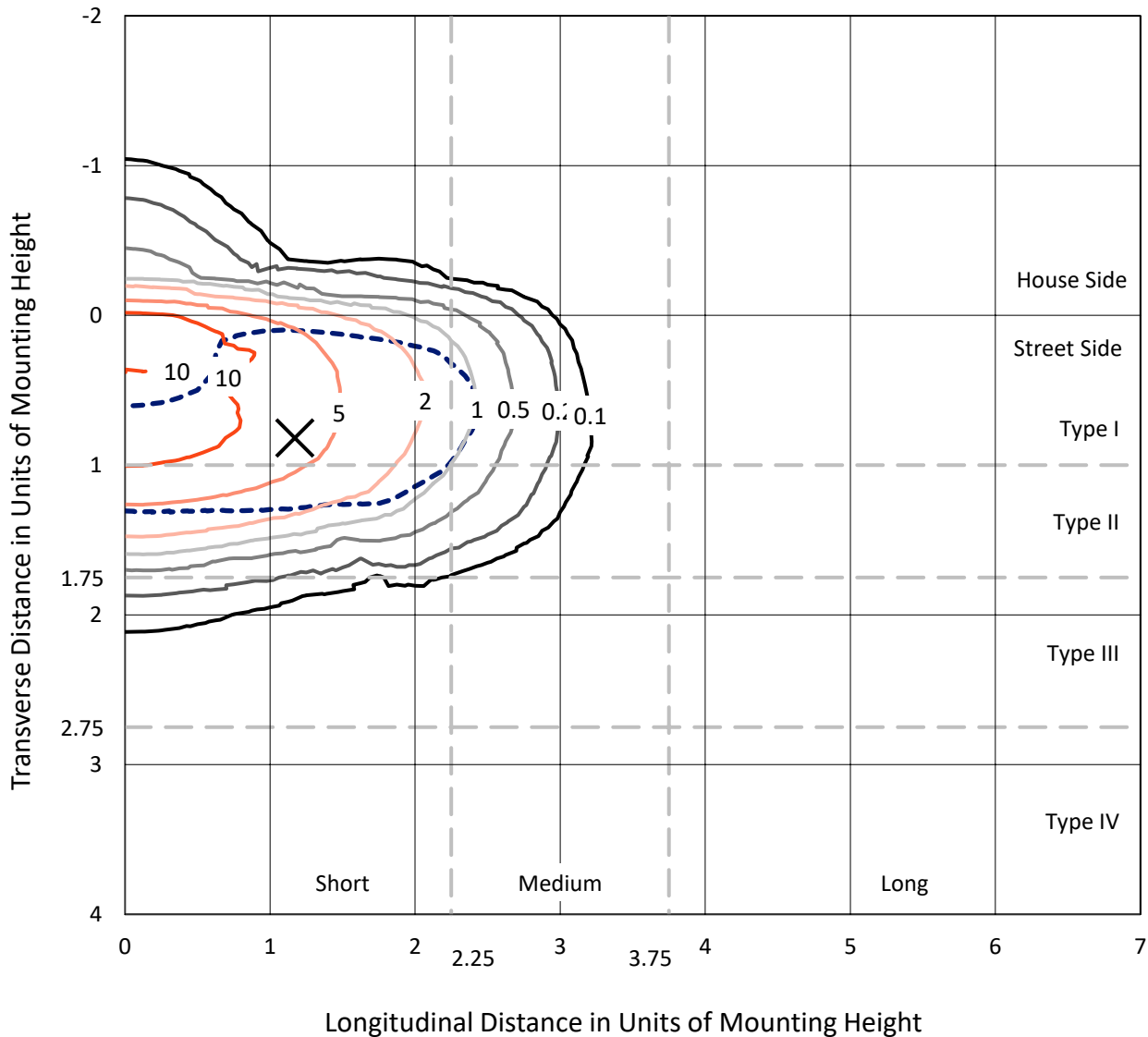
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

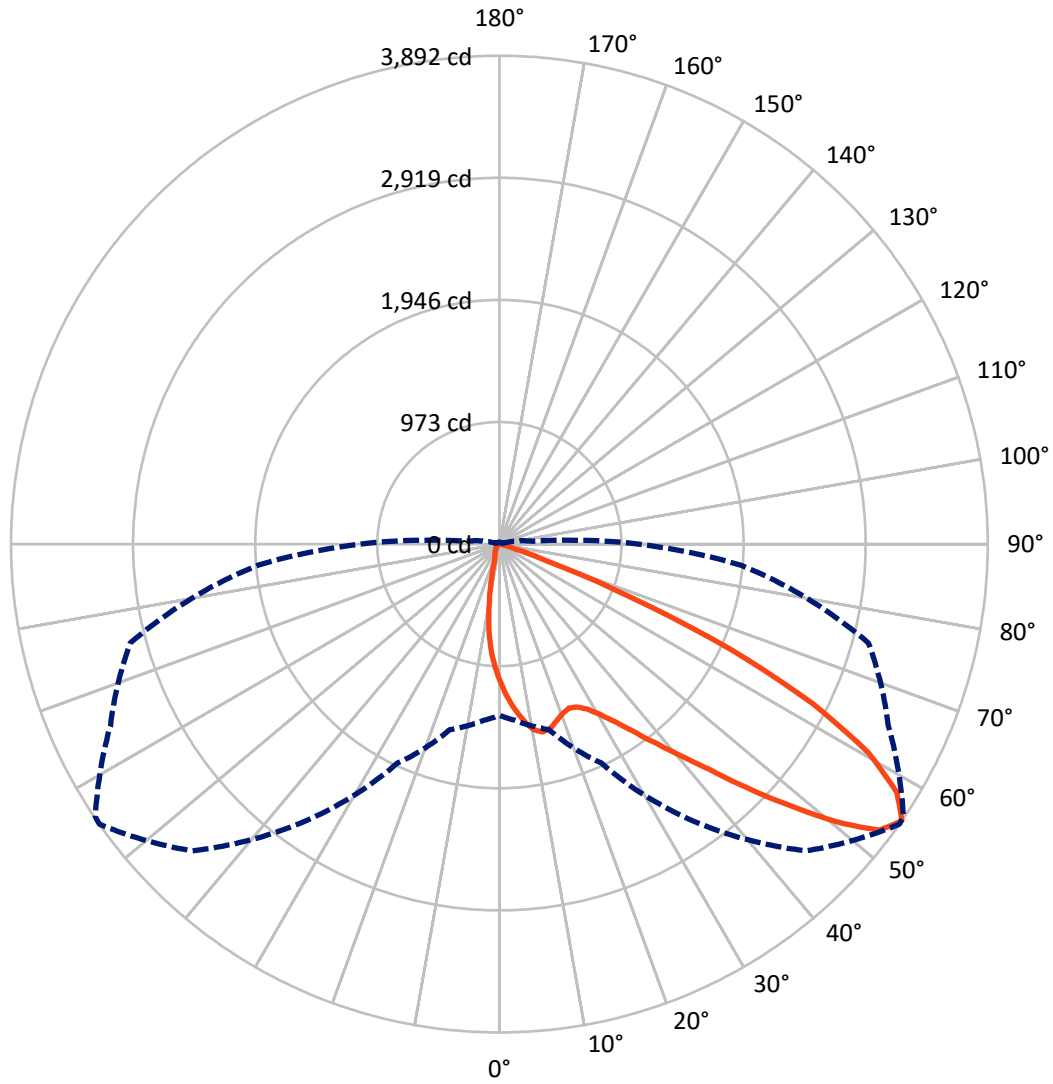
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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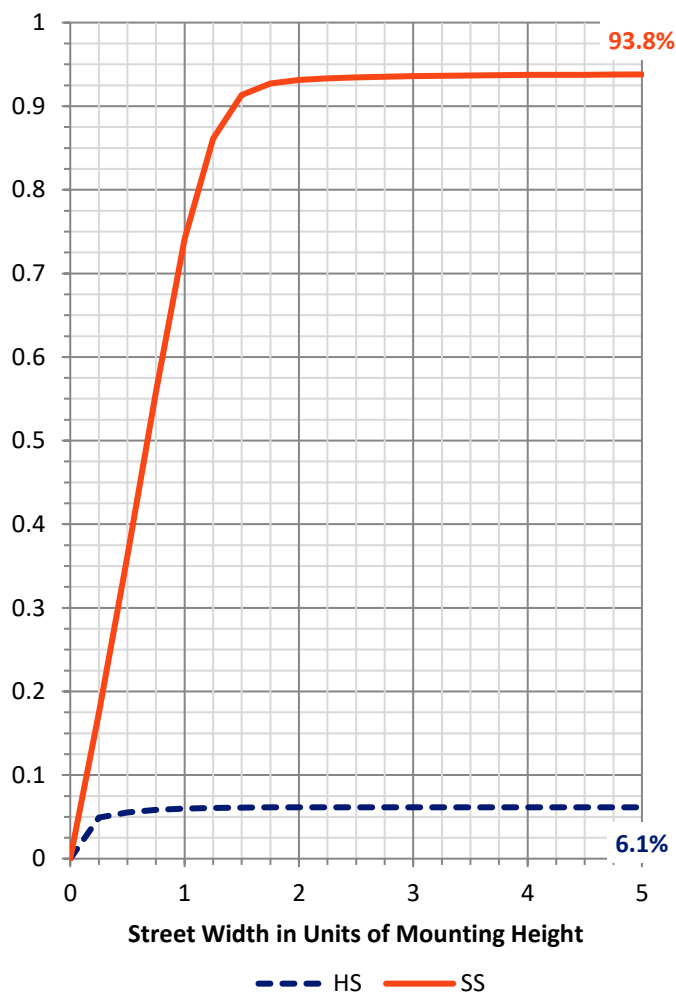
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	263.0	0.0	263.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3999.9	0.0	3999.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	4262.9	0.0	4262.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	2.3
10°-20°	234.6	5.5
20°-30°	390.8	9.2
30°-40°	665.9	15.6
40°-50°	1087.0	25.5
50°-60°	1138.0	26.7
60°-70°	574.0	13.5
70°-80°	72.5	1.7
80°-90°	2.8	0.1
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°	4262.9	100.0
0°-180°	4262.9	100.0

Coefficient of Utilization



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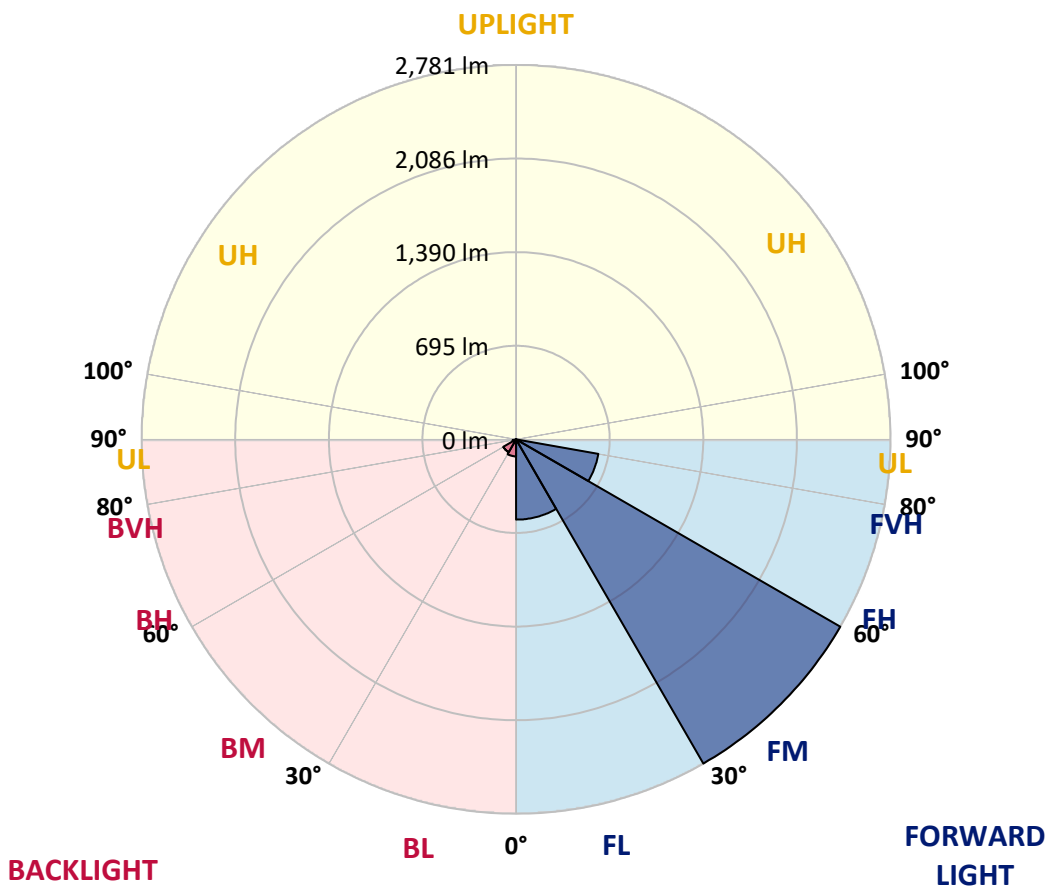
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.3	14.0			
FM (30°-60°)	2780.9	65.2			
FH (60°-80°)	620.1	14.5			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	126.4	3.0	B1/500		
BM (30°-60°)	110.0	2.6	B0/220		
BH (60°-80°)	26.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3
2.5°	1283.9	1277.7	1287.1	1276.2	1257.6	1242.0	1221.5	1214.3	1181.5	1150.5	1120.6
5°	1439.8	1441.7	1438.7	1423.4	1397.2	1368.0	1326.9	1317.8	1260.5	1201.5	1137.7
7.5°	1478.5	1477.4	1483.6	1489.4	1485.0	1470.4	1425.6	1416.5	1345.4	1256.9	1164.0
10°	1359.3	1360.0	1372.8	1412.1	1461.0	1511.6	1504.7	1499.6	1430.0	1319.6	1193.1
12.5°	1190.9	1197.5	1211.0	1267.1	1349.8	1465.0	1536.4	1541.5	1507.6	1388.4	1227.4
15°	1118.0	1119.5	1130.4	1164.3	1225.9	1368.0	1522.9	1537.1	1572.5	1457.7	1264.5
17.5°	1116.2	1118.0	1122.8	1137.7	1177.8	1291.9	1479.6	1504.3	1621.3	1532.0	1309.0
20°	1184.7	1183.6	1180.4	1172.3	1189.8	1266.7	1439.5	1466.8	1647.9	1604.6	1353.8
22.5°	1309.0	1307.5	1293.0	1259.8	1245.6	1289.7	1419.8	1444.6	1664.0	1669.1	1390.6
25°	1452.2	1462.4	1435.1	1384.8	1349.8	1348.4	1437.3	1454.8	1677.8	1726.3	1415.8
27.5°	1609.3	1612.6	1589.2	1532.8	1482.1	1442.4	1487.9	1501.1	1693.1	1777.3	1430.0
30°	1781.7	1780.6	1754.0	1688.4	1626.8	1569.6	1573.2	1578.3	1728.8	1835.6	1445.7
32.5°	1997.0	2001.8	1954.4	1865.1	1791.1	1712.1	1684.7	1685.5	1793.3	1910.7	1469.4
35°	2289.7	2278.0	2215.3	2088.1	1962.0	1876.8	1830.1	1826.1	1892.8	2011.6	1510.5
37.5°	2568.4	2569.5	2503.9	2364.0	2204.8	2070.3	2004.3	1993.4	2032.7	2151.5	1579.0
40°	2762.0	2765.6	2738.3	2665.0	2496.3	2306.1	2209.1	2197.8	2214.2	2328.7	1668.7
42.5°	2864.4	2874.6	2882.2	2899.3	2771.4	2600.5	2451.5	2450.4	2433.2	2530.5	1772.5
45°	2868.4	2883.7	2930.3	3047.3	3061.9	2936.5	2774.3	2749.9	2684.0	2746.6	1865.5
47.5°	2709.8	2745.2	2844.3	3076.1	3229.1	3270.7	3110.0	3095.0	2909.9	2917.6	1935.1
50°	2340.3	2377.1	2559.7	2928.5	3271.4	3536.0	3478.4	3447.4	3098.7	3030.5	1968.6
52.5°	1961.3	1994.8	2118.8	2577.2	3096.1	3619.4	3788.9	3752.1	3268.1	3069.9	1954.8
55°	1364.8	1409.6	1530.6	1926.3	2692.4	3456.9	3891.7	3884.0	3419.4	3045.1	1933.3
57.5°	669.1	713.5	834.2	1187.7	1994.5	3018.1	3734.6	3775.0	3509.7	3018.5	1915.8
60°	279.5	297.7	339.3	521.1	1115.9	2280.9	3380.0	3436.1	3454.4	2982.4	1913.9
62.5°	162.2	165.1	169.5	216.1	434.0	1307.5	2803.9	2883.7	3163.2	2934.7	1885.2
65°	122.4	123.5	121.7	132.6	179.3	496.0	2025.8	2134.4	2640.2	2748.1	1771.5
67.5°	100.6	100.6	95.8	98.0	112.6	185.9	1118.4	1270.0	1953.7	2258.7	1462.8
70°	80.2	82.0	79.8	76.9	80.5	102.8	397.9	493.4	1137.7	1333.8	853.1
72.5°	60.9	60.9	64.5	62.3	59.8	64.5	138.8	156.0	456.6	556.1	307.9
75°	47.0	48.5	51.0	48.8	45.2	38.3	66.7	70.7	137.8	129.4	68.9
77.5°	24.1	24.4	32.4	35.7	33.5	23.3	29.2	32.1	44.8	40.1	25.5
80°	14.6	15.3	18.2	28.1	22.2	12.4	12.0	12.8	21.1	18.2	10.6
82.5°	6.2	6.6	10.2	10.2	9.1	4.7	4.7	4.7	10.2	9.5	4.4
85°	0.0	0.0	1.8	1.5	1.5	1.8	1.8	1.8	2.6	3.6	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.1
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°	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3	1101.3
2.5°	1101.3	1078.0	1046.6	1018.2	979.9	958.4	928.5	904.1	883.4	876.8	873.9
5°	1101.6	1061.6	994.5	927.5	845.1	780.2	713.5	660.7	617.3	603.5	599.8
7.5°	1108.9	1049.9	941.3	819.6	681.8	568.1	466.5	375.4	333.1	318.9	316.0
10°	1118.8	1040.1	879.7	690.2	492.3	346.2	245.3	186.9	159.3	143.9	146.1
12.5°	1131.5	1032.0	811.6	550.3	325.8	190.2	134.8	113.0	107.1	104.2	102.8
15°	1148.7	1022.6	727.0	411.4	199.7	122.4	103.9	98.0	95.8	94.4	94.0
17.5°	1166.2	1011.6	641.0	289.4	132.6	101.7	93.3	90.4	88.9	87.8	87.5
20°	1184.7	993.1	540.1	199.3	104.6	91.5	86.0	82.7	80.9	79.1	78.7
22.5°	1192.8	963.2	443.5	139.6	92.9	84.2	77.3	73.2	71.1	69.6	69.6
25°	1185.1	914.7	343.7	106.0	84.5	76.2	69.2	64.9	63.0	61.6	61.6
27.5°	1164.7	852.4	250.7	87.8	75.4	67.8	61.2	57.2	55.8	55.0	55.0
30°	1142.1	773.7	176.7	75.4	65.2	59.0	53.6	51.0	50.7	49.9	49.9
32.5°	1122.8	700.1	121.7	66.3	57.6	51.4	47.7	46.6	47.0	46.3	46.6
35°	1112.2	627.9	90.4	59.0	51.4	45.6	43.7	43.7	43.7	43.4	43.4
37.5°	1116.6	556.8	73.6	53.9	45.9	41.5	39.7	40.5	41.2	41.2	41.2
40°	1138.5	493.8	65.2	49.2	41.2	37.9	36.4	37.5	38.6	39.4	39.4
42.5°	1166.2	442.8	59.0	45.2	37.9	34.3	33.5	34.6	35.7	36.4	36.4
45°	1183.6	391.4	52.8	40.1	34.6	30.2	30.2	31.7	31.3	31.7	31.7
47.5°	1191.7	350.6	46.6	34.6	29.5	26.2	26.6	27.3	26.6	27.3	27.3
50°	1172.0	309.4	41.2	28.8	24.4	23.0	23.7	23.3	23.3	24.8	24.8
52.5°	1135.9	278.8	36.4	24.4	20.8	20.4	21.1	19.7	20.0	20.0	19.7
55°	1109.3	261.3	32.4	21.1	17.9	18.2	17.9	15.3	13.8	12.4	12.0
57.5°	1096.2	254.4	29.5	18.9	16.0	16.0	14.6	10.6	8.0	6.2	5.5
60°	1093.3	246.0	26.6	16.4	14.2	13.5	10.6	6.2	4.0	2.9	2.6
62.5°	1065.6	225.6	24.1	13.1	12.4	10.9	6.6	3.6	2.2	1.5	1.1
65°	974.8	185.5	21.5	10.2	9.5	8.0	4.0	2.2	1.1	0.4	0.0
67.5°	775.5	131.6	18.9	7.7	6.6	5.1	2.6	1.5	0.4	0.0	0.0
70°	447.1	71.1	15.7	5.5	4.4	3.3	1.8	0.7	0.0	0.0	0.0
72.5°	149.4	33.2	12.0	3.6	3.3	2.6	1.1	0.4	0.0	0.0	0.0
75°	32.8	19.7	8.0	2.6	2.2	1.8	0.7	0.0	0.0	0.0	0.0
77.5°	12.4	13.8	4.0	1.8	1.5	1.1	0.4	0.0	0.0	0.0	0.0
80°	4.7	9.1	1.8	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	3.6	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	1.8	0.7	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.4	0.4	0.4	0.0	0.0	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)