

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: P636981

Luminaire Tested: GWS-SA4B-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7452.3 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

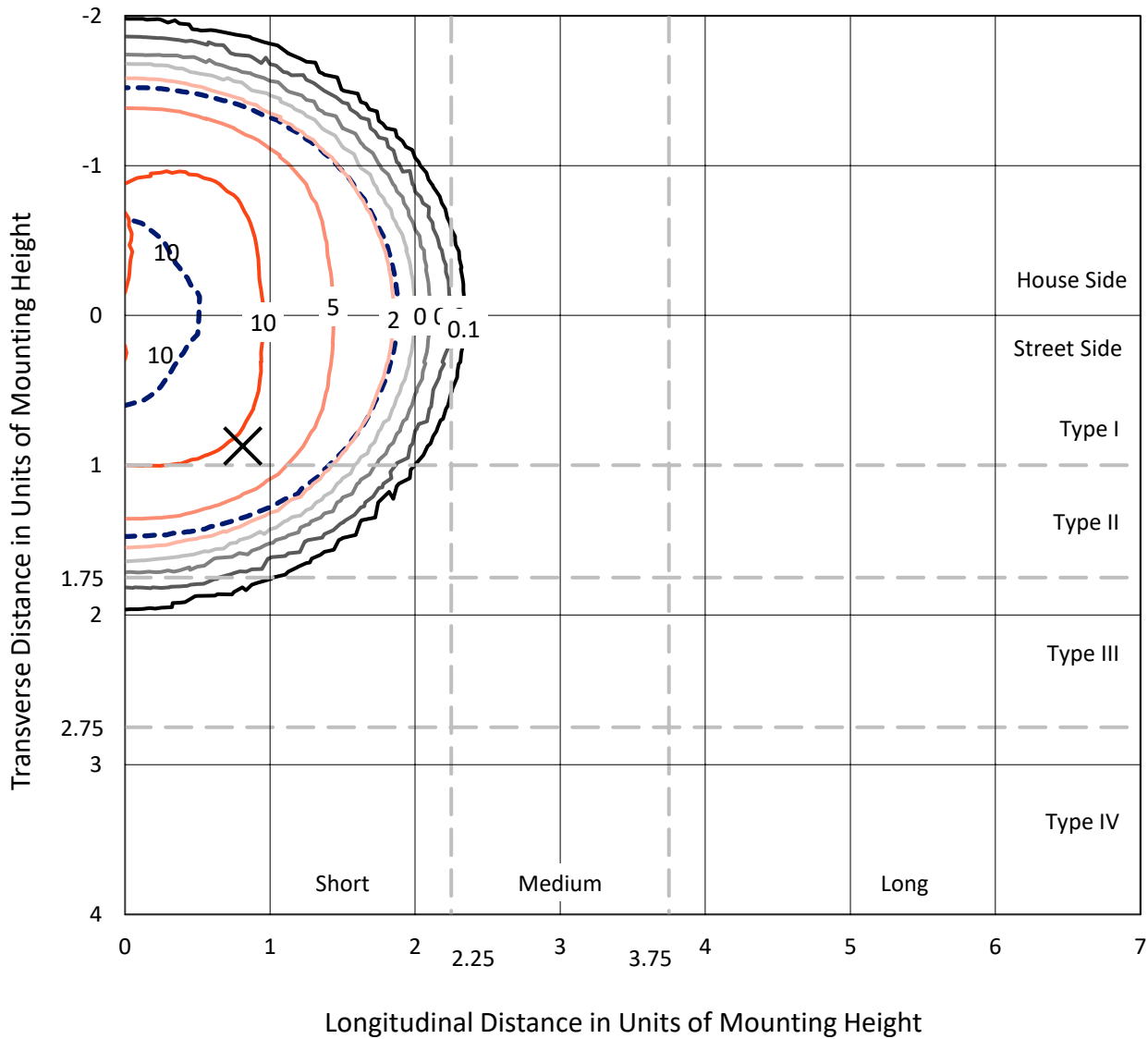
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

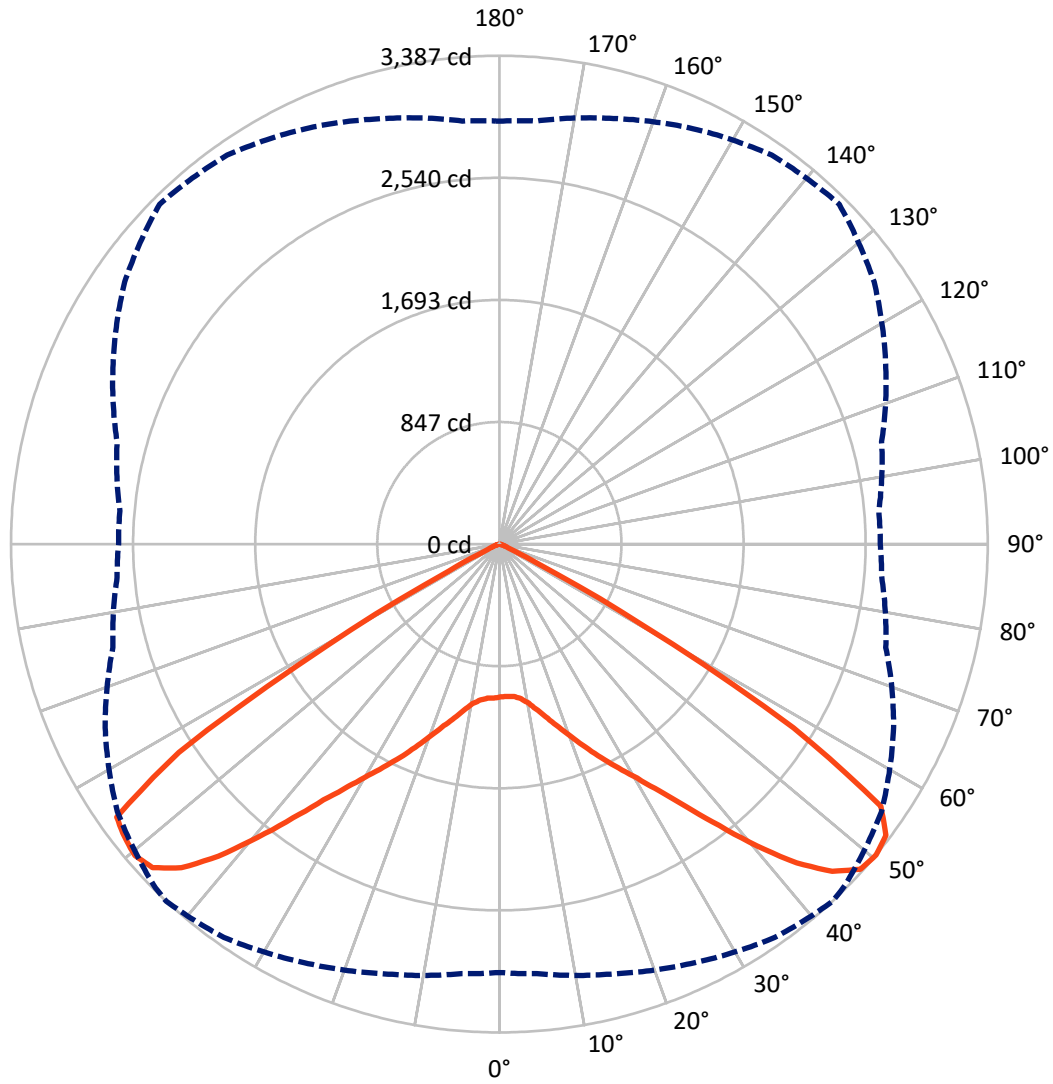
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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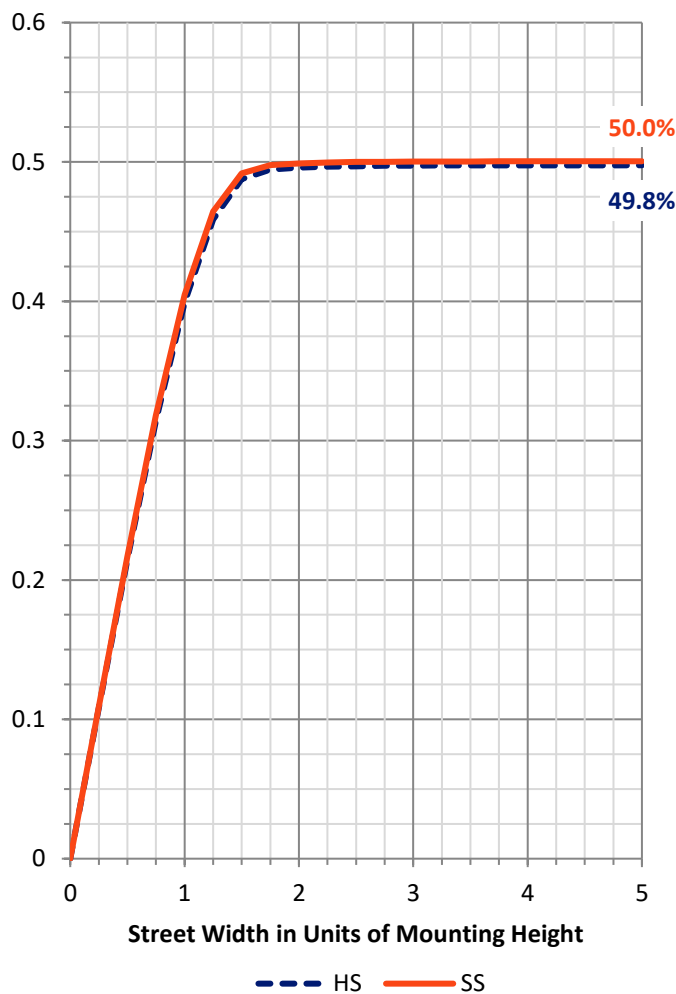
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3726.1	0.0	3726.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3726.2	0.0	3726.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	7452.3	0.0	7452.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.4
10°-20°	359.2	4.8
20°-30°	726.7	9.8
30°-40°	1348.4	18.1
40°-50°	2238.2	30.0
50°-60°	2284.2	30.7
60°-70°	374.6	5.0
70°-80°	16.4	0.2
80°-90°	0.2	0.0
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°	7452.3	100.0
0°-180°	7452.3	100.0

Coefficient of Utilization



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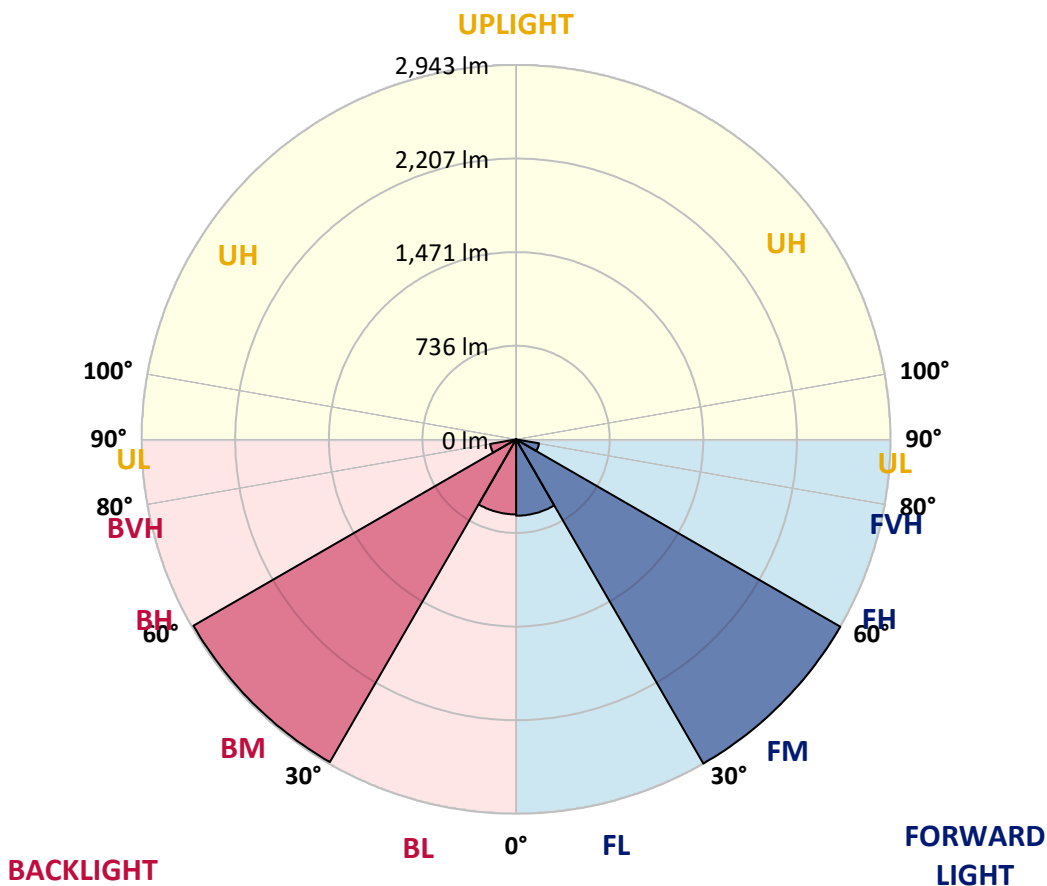
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.4	8.1			
FM (30°-60°)	2942.5	39.5			
FH (60°-80°)	183.3	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	590.0	7.9	B2/1000		
BM (30°-60°)	2928.2	39.3	B3/5000		
BH (60°-80°)	207.7	2.8	B1/500		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1040.2	1042.7	1046.0	1049.3	1053.4	1057.5	1060.0	1067.4	1065.7	1072.3	1072.3
5°	1028.7	1031.1	1035.2	1042.7	1051.7	1060.8	1067.4	1082.2	1090.5	1103.7	1108.6
7.5°	1034.4	1037.7	1042.7	1054.2	1068.2	1082.2	1089.6	1113.5	1130.0	1154.8	1168.8
10°	1053.4	1056.7	1064.9	1084.7	1102.8	1122.6	1131.7	1162.2	1188.6	1222.3	1242.1
12.5°	1074.8	1078.9	1095.4	1125.1	1156.4	1182.8	1195.1	1228.9	1256.1	1294.1	1325.4
15°	1097.1	1103.7	1129.2	1172.9	1217.4	1252.8	1266.0	1302.3	1329.5	1369.9	1405.3
17.5°	1149.0	1156.4	1185.3	1232.2	1293.2	1334.4	1346.0	1383.9	1404.5	1431.7	1468.8
20°	1214.1	1228.1	1263.6	1320.4	1387.2	1426.8	1435.0	1472.1	1470.4	1482.0	1514.1
22.5°	1294.9	1304.8	1343.5	1411.1	1486.1	1529.8	1548.7	1564.4	1543.8	1533.9	1554.5
25°	1379.0	1390.5	1432.5	1506.7	1590.8	1641.1	1656.7	1669.1	1636.1	1599.0	1601.5
27.5°	1487.8	1496.0	1537.2	1616.3	1700.4	1757.3	1771.3	1792.7	1749.0	1689.7	1673.2
30°	1617.2	1625.4	1669.1	1752.3	1835.6	1884.2	1905.6	1932.0	1884.2	1810.0	1791.1
32.5°	1768.8	1777.1	1833.1	1918.8	1987.2	2040.0	2060.6	2088.6	2050.7	1967.5	1946.0
35°	1950.2	1955.1	2021.0	2114.2	2186.7	2237.8	2251.8	2284.8	2242.8	2159.5	2148.0
37.5°	2160.3	2166.1	2237.8	2345.8	2420.0	2476.8	2499.1	2508.2	2457.1	2363.9	2354.9
40°	2391.1	2410.1	2480.1	2596.4	2679.6	2751.3	2771.1	2740.6	2668.9	2542.0	2525.5
42.5°	2631.8	2648.3	2726.6	2852.7	2949.1	3022.5	3023.3	2957.4	2835.4	2659.8	2635.1
45°	2832.1	2838.7	2940.1	3067.0	3185.7	3237.6	3242.6	3123.0	2939.2	2728.2	2675.5
47.5°	2969.7	2980.4	3068.6	3190.6	3321.7	3368.7	3358.8	3209.6	2988.7	2772.7	2685.4
50°	2971.4	2989.5	3085.1	3203.0	3329.9	3386.8	3372.8	3234.3	3016.7	2774.4	2661.5
52.5°	2708.5	2738.1	2893.9	3064.5	3259.0	3356.3	3359.6	3266.5	3006.0	2748.0	2640.0
55°	2043.3	2075.4	2271.6	2562.6	2938.4	3209.6	3256.6	3228.5	2993.6	2759.6	2678.0
57.5°	1081.4	1056.7	1165.5	1454.0	1926.2	2406.0	2543.6	2767.8	2856.0	2773.6	2748.0
60°	235.7	251.4	334.6	450.9	751.7	1131.7	1266.0	1650.1	2106.8	2309.5	2456.2
62.5°	101.4	99.7	103.9	117.9	172.3	286.8	350.3	572.0	902.5	1239.7	1468.0
65°	83.2	84.1	87.4	87.4	81.6	82.4	86.5	131.1	211.0	295.9	397.3
67.5°	62.6	63.5	69.2	70.9	66.8	59.3	58.5	49.5	51.9	65.1	67.6
70°	39.6	39.6	42.9	44.5	44.5	41.2	40.4	35.4	34.6	39.6	44.5
72.5°	21.4	21.4	23.1	23.9	23.1	22.3	22.3	21.4	20.6	23.9	30.5
75°	9.1	9.1	9.9	9.9	9.1	9.1	9.1	9.1	9.1	10.7	16.5
77.5°	1.6	2.5	3.3	2.5	1.6	1.6	1.6	2.5	2.5	3.3	4.9
80°	0.8	0.8	1.6	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0	1060.0
2.5°	1078.1	1069.0	1072.3	1074.0	1071.5	1069.9	1060.8	1058.3	1054.2	1047.6	1046.0
5°	1114.4	1107.0	1106.1	1101.2	1089.6	1075.6	1058.3	1050.9	1042.7	1034.4	1032.8
7.5°	1175.4	1166.3	1160.5	1144.0	1117.7	1095.4	1066.6	1050.9	1040.2	1029.5	1027.0
10°	1253.7	1243.0	1226.5	1196.0	1160.5	1128.4	1094.6	1074.0	1057.5	1042.7	1041.8
12.5°	1336.9	1325.4	1295.7	1257.0	1214.1	1184.4	1141.6	1112.7	1088.0	1065.7	1063.3
15°	1424.3	1410.3	1369.9	1323.7	1284.2	1253.7	1206.7	1160.5	1122.6	1090.5	1087.2
17.5°	1491.0	1473.7	1425.9	1391.3	1359.2	1327.8	1275.1	1214.1	1163.8	1125.1	1116.0
20°	1533.1	1516.6	1471.3	1452.3	1437.5	1415.2	1352.6	1289.1	1233.1	1185.3	1177.0
22.5°	1573.5	1553.7	1514.1	1514.1	1525.7	1516.6	1449.0	1376.5	1310.5	1255.3	1243.0
25°	1618.8	1603.1	1575.1	1598.2	1627.0	1626.2	1557.0	1466.3	1390.5	1328.7	1316.3
27.5°	1684.7	1669.1	1659.2	1702.9	1739.1	1736.7	1660.8	1562.8	1482.8	1421.8	1410.3
30°	1801.0	1786.1	1775.4	1828.2	1874.3	1857.0	1773.8	1679.0	1598.2	1529.0	1520.7
32.5°	1955.9	1940.3	1926.2	1979.0	2020.2	1998.0	1918.8	1829.8	1736.7	1669.1	1652.6
35°	2159.5	2126.5	2112.5	2175.2	2192.5	2167.7	2091.9	2013.6	1914.7	1837.2	1826.5
37.5°	2369.7	2330.9	2321.1	2375.5	2403.5	2394.4	2305.4	2223.8	2116.6	2030.9	2018.6
40°	2549.4	2513.9	2496.6	2581.5	2645.0	2650.8	2570.8	2471.1	2345.0	2255.9	2233.7
42.5°	2654.9	2624.4	2620.3	2752.1	2856.0	2930.2	2834.6	2731.5	2598.8	2498.3	2480.1
45°	2678.8	2659.0	2693.6	2866.7	3028.3	3163.4	3081.8	2973.0	2829.6	2723.3	2706.0
47.5°	2676.3	2669.7	2731.5	2926.0	3130.5	3297.0	3256.6	3133.8	2995.3	2884.0	2867.5
50°	2640.9	2641.7	2744.7	2955.7	3171.7	3333.2	3292.8	3179.1	3055.5	2945.8	2932.6
52.5°	2626.9	2621.9	2720.0	2946.7	3213.7	3316.7	3226.1	3098.3	2960.7	2825.5	2805.7
55°	2676.3	2663.9	2723.3	2939.2	3218.7	3307.7	3068.6	2791.7	2509.8	2349.9	2336.7
57.5°	2750.5	2737.3	2765.3	2884.8	2960.7	2750.5	2258.4	1811.7	1521.5	1398.7	1345.2
60°	2456.2	2447.2	2425.7	2281.5	1956.7	1476.2	1005.6	641.3	460.7	372.6	372.6
62.5°	1524.0	1511.7	1395.4	1036.9	753.4	436.0	239.9	150.0	113.7	106.3	105.5
65°	427.8	425.3	352.0	248.9	158.3	98.1	86.5	88.2	86.5	84.1	83.2
67.5°	64.3	70.9	70.9	57.7	55.2	61.8	72.5	77.5	73.4	69.2	67.6
70°	41.2	44.5	42.9	37.1	39.6	46.2	51.9	52.8	50.3	46.2	45.3
72.5°	28.8	32.1	26.4	23.9	24.7	27.2	29.7	29.7	28.8	27.2	25.6
75°	17.3	17.3	12.4	11.5	11.5	12.4	12.4	14.0	14.0	13.2	12.4
77.5°	5.8	6.6	4.1	3.3	3.3	3.3	4.1	4.9	4.9	4.1	3.3
80°	0.8	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	0.8
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	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)