

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: P632066

Luminaire Tested: GWS-SA2B-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4806.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

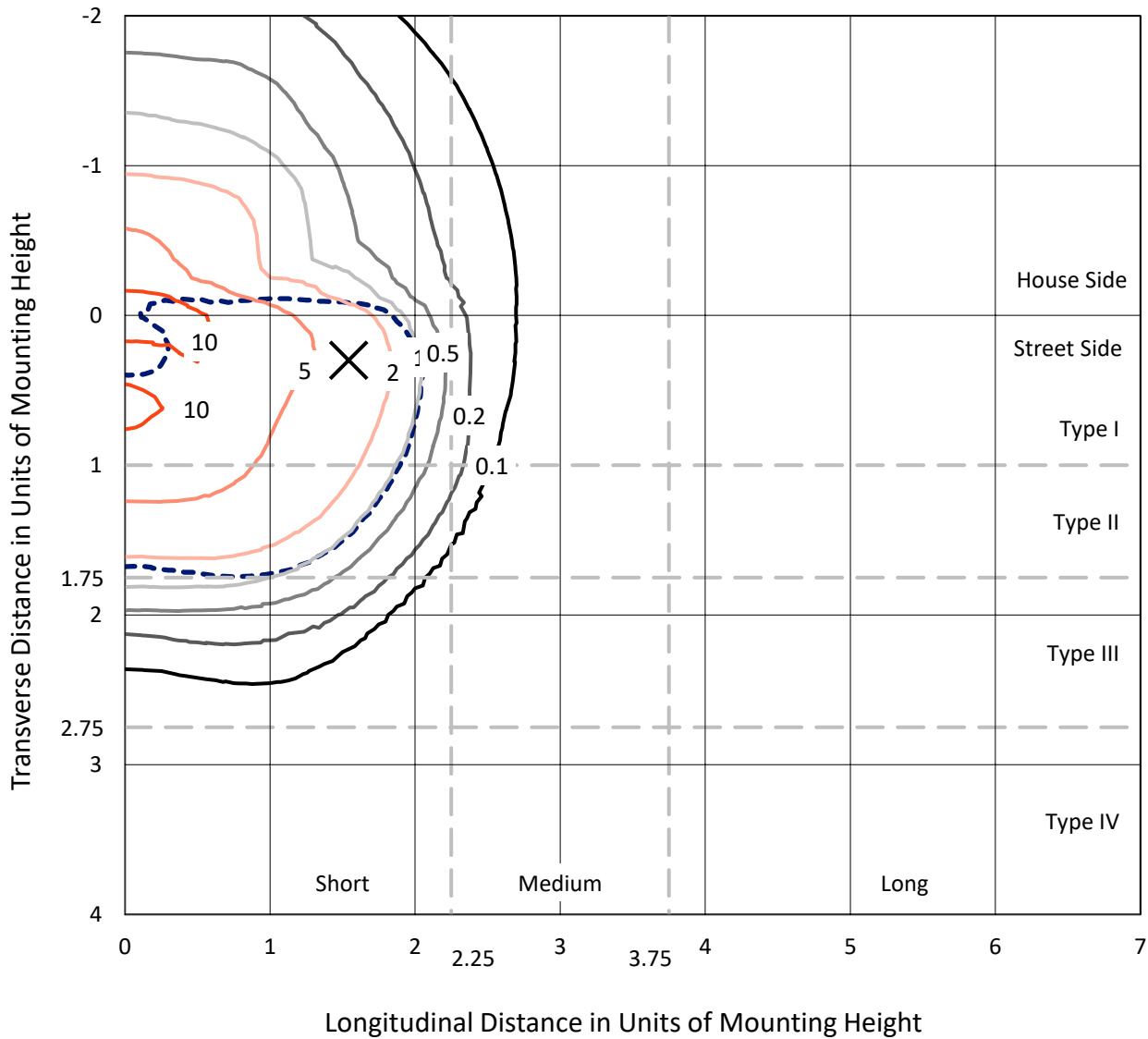
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

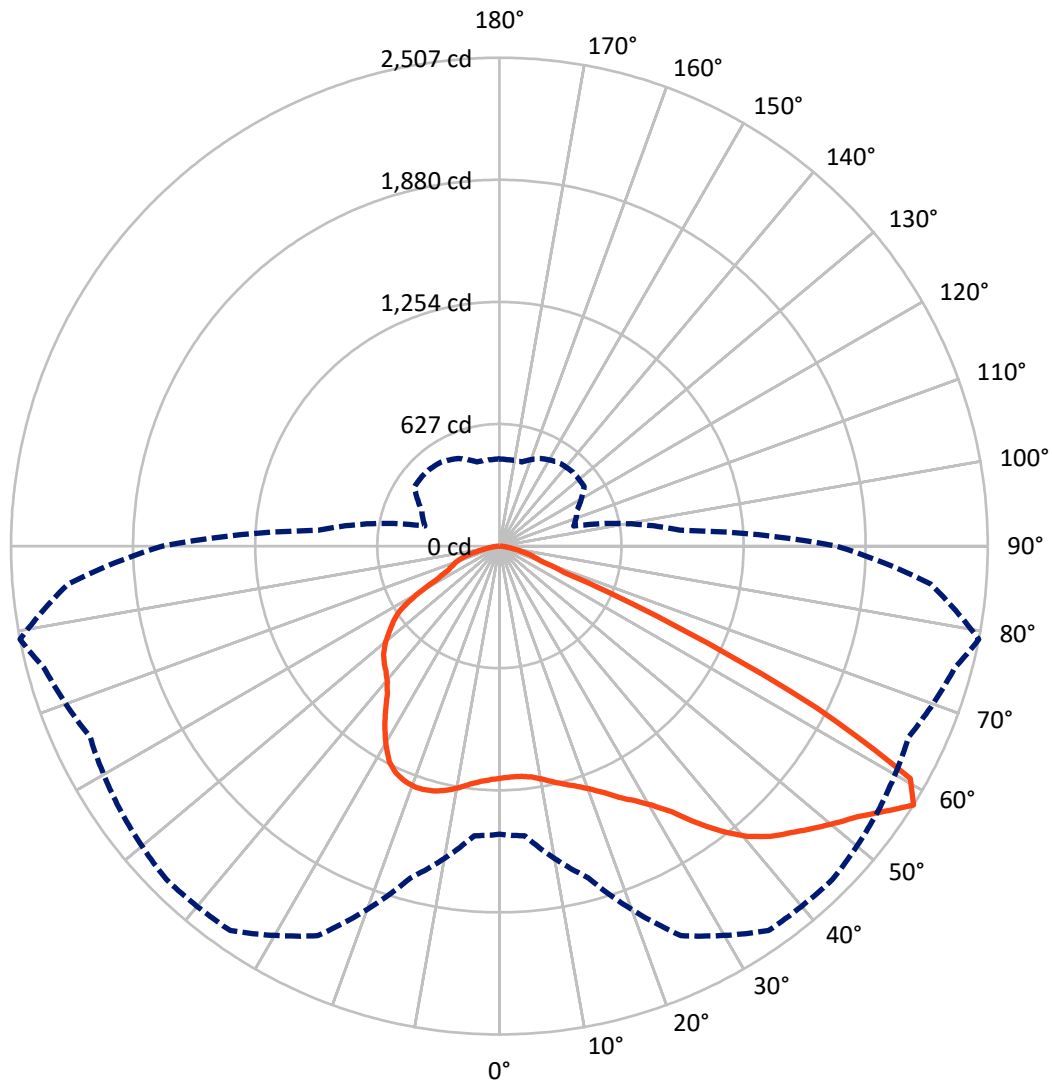
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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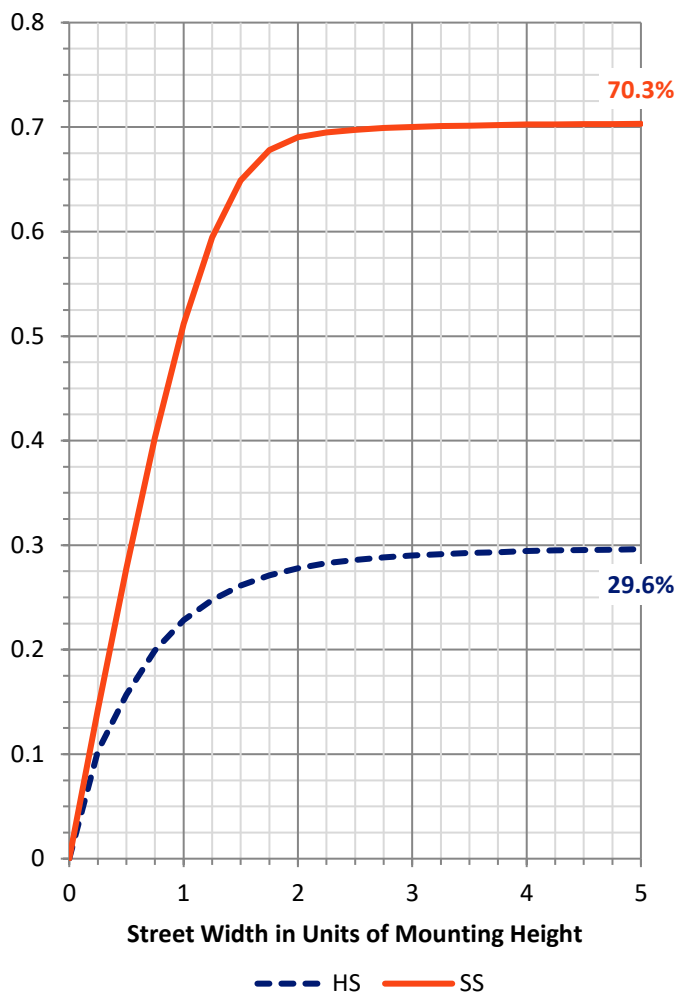
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1428.7	0.0	1428.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	3377.7	0.0	3377.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	4806.5	0.0	4806.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	2.3
10°-20°	306.6	6.4
20°-30°	519.6	10.8
30°-40°	795.4	16.5
40°-50°	1060.5	22.1
50°-60°	1224.8	25.5
60°-70°	636.5	13.2
70°-80°	135.3	2.8
80°-90°	17.5	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°	4806.5	100.0
0°-180°	4806.5	100.0

Coefficient of Utilization



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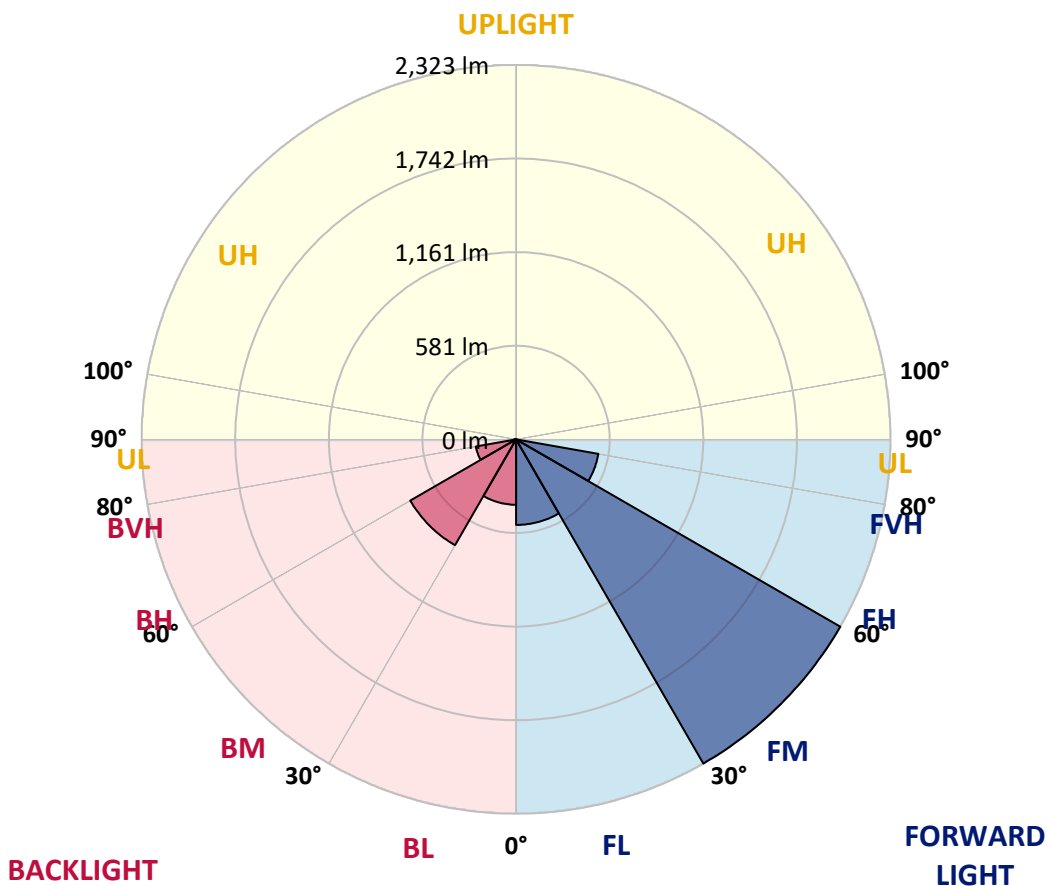
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.7	11.0			
FM (30°-60°)	2322.6	48.3			
FH (60°-80°)	518.3	10.8			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	405.7	8.4	B1/500		
BM (30°-60°)	758.1	15.8	B1/1000		
BH (60°-80°)	253.5	5.3	B1/500		G1/500
BVH (80°-90°)	11.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1136.9	1134.6	1135.4	1138.5	1150.3	1158.9	1168.0	1176.2	1184.1	1186.4	1188.4
5°	1096.5	1092.1	1093.3	1098.4	1112.2	1126.7	1142.8	1162.5	1181.3	1187.6	1195.9
7.5°	1067.8	1067.0	1068.9	1076.8	1091.3	1105.1	1125.9	1153.8	1186.4	1197.1	1211.6
10°	1029.6	1028.1	1035.9	1052.0	1076.0	1098.0	1122.8	1155.8	1201.4	1217.1	1239.5
12.5°	999.4	998.6	1006.8	1029.2	1059.9	1094.9	1129.1	1166.0	1221.4	1243.0	1270.5
15°	1017.1	1013.5	1013.9	1029.6	1057.2	1098.4	1144.8	1184.5	1241.5	1269.0	1304.3
17.5°	1068.5	1062.3	1057.5	1060.3	1076.0	1118.9	1168.8	1209.2	1264.7	1296.9	1340.1
20°	1139.7	1136.1	1123.2	1114.5	1118.1	1155.8	1206.5	1244.2	1294.9	1331.1	1377.4
22.5°	1235.2	1226.5	1208.8	1195.1	1184.5	1214.0	1260.7	1293.3	1337.0	1374.7	1423.0
25°	1353.5	1340.9	1313.0	1291.4	1268.6	1298.8	1340.5	1365.3	1394.7	1429.7	1475.7
27.5°	1474.1	1463.5	1432.5	1403.4	1375.1	1393.9	1443.5	1457.6	1454.5	1480.0	1519.3
30°	1602.6	1589.3	1559.8	1528.3	1491.8	1504.0	1548.4	1555.5	1522.1	1543.3	1570.0
32.5°	1738.2	1725.2	1699.7	1663.1	1621.9	1626.6	1638.8	1645.5	1613.6	1625.8	1646.2
35°	1876.1	1864.0	1838.0	1801.9	1771.6	1742.9	1712.3	1739.0	1720.5	1744.1	1742.5
37.5°	2002.3	1990.1	1974.0	1946.1	1894.2	1837.6	1766.9	1799.9	1828.6	1858.5	1853.4
40°	2087.6	2079.3	2083.3	2078.9	2012.1	1900.1	1793.6	1829.8	1908.0	1959.1	1956.3
42.5°	2161.1	2152.8	2175.6	2192.1	2113.5	1957.9	1806.6	1841.2	1958.7	2038.5	2034.5
45°	2193.7	2191.3	2229.1	2281.3	2206.3	2019.2	1840.0	1864.8	1997.2	2099.4	2084.4
47.5°	2154.8	2163.0	2237.3	2325.7	2283.3	2091.9	1908.4	1914.7	2047.5	2165.4	2123.3
50°	2077.4	2095.4	2195.7	2326.9	2339.5	2174.0	2003.1	1987.4	2115.1	2235.7	2143.8
52.5°	1964.6	1983.4	2146.9	2317.9	2371.7	2269.1	2129.2	2106.8	2200.4	2306.1	2147.3
55°	1705.6	1731.1	2035.3	2297.4	2403.2	2355.6	2271.5	2225.9	2310.4	2402.8	2182.3
57.5°	1479.6	1493.0	1763.4	2206.7	2409.4	2419.3	2372.9	2318.7	2419.7	2507.3	2221.6
60°	1085.8	1089.0	1332.2	1825.8	2216.5	2382.3	2364.6	2284.1	2367.8	2423.6	2041.6
62.5°	613.5	613.9	808.0	1218.7	1655.7	1941.8	1952.8	1881.7	1811.3	1827.8	1421.1
65°	230.3	251.9	369.0	598.9	954.6	1146.4	1191.9	1208.5	1091.3	1018.6	762.0
67.5°	154.1	159.2	215.4	308.1	424.8	490.5	548.6	550.2	402.4	358.8	300.2
70°	117.5	122.6	169.4	220.5	215.4	198.9	215.0	209.1	216.1	222.0	228.3
72.5°	87.6	92.7	131.3	155.6	129.3	127.3	144.2	160.3	175.3	181.6	191.4
75°	58.2	62.1	88.4	83.3	71.5	84.5	105.3	121.4	130.1	137.5	145.0
77.5°	36.9	39.7	47.2	38.1	39.7	49.5	61.3	75.8	84.1	91.6	95.5
80°	16.9	16.5	16.1	18.1	22.4	29.1	36.9	45.6	51.9	55.0	57.4
82.5°	6.7	7.5	8.3	9.8	12.2	15.7	20.8	26.7	31.8	32.6	34.6
85°	2.8	3.1	3.5	4.3	5.5	7.1	8.6	12.2	15.3	16.5	17.7
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	1.2	2.0	3.5	3.9	4.3
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°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1199.0	1193.9	1202.6	1208.5	1214.0	1208.1	1206.1	1201.0	1200.2	1200.2	1203.0
5°	1210.0	1206.5	1215.5	1219.1	1218.7	1205.7	1197.8	1187.6	1182.5	1182.5	1183.3
7.5°	1229.7	1227.7	1232.8	1227.3	1214.7	1188.4	1162.5	1140.9	1126.3	1118.9	1121.2
10°	1262.3	1259.9	1255.6	1235.2	1199.0	1144.4	1091.3	1052.0	1028.5	1015.1	1015.9
12.5°	1294.1	1290.2	1274.9	1229.7	1155.4	1068.5	999.0	955.0	929.0	913.3	909.8
15°	1329.1	1318.9	1285.9	1201.4	1084.3	975.8	903.1	855.5	827.6	818.2	817.8
17.5°	1362.5	1344.4	1284.7	1151.1	999.0	878.7	805.6	776.2	771.4	775.8	776.9
20°	1396.3	1367.2	1271.7	1081.5	897.6	782.1	744.3	756.5	774.2	786.0	788.7
22.5°	1431.3	1386.1	1242.3	991.9	790.7	716.8	732.5	759.3	781.3	797.0	798.6
25°	1470.6	1403.8	1198.2	882.3	705.0	698.7	729.8	758.1	781.7	799.7	802.9
27.5°	1493.0	1404.2	1136.5	769.5	665.7	691.7	723.1	749.8	773.4	793.1	796.6
30°	1515.0	1393.6	1038.7	677.9	654.3	683.4	711.7	736.5	758.9	778.1	782.4
32.5°	1546.0	1383.7	925.9	625.3	647.7	675.6	698.7	720.7	738.0	746.7	749.0
35°	1584.5	1371.2	806.0	602.5	643.3	669.3	689.7	701.5	679.1	674.4	679.5
37.5°	1638.4	1359.4	686.6	592.6	640.6	666.9	685.0	654.7	627.2	616.2	620.1
40°	1696.6	1352.7	605.6	584.8	641.8	669.3	665.3	620.5	580.8	557.7	556.9
42.5°	1746.1	1342.5	553.7	579.7	644.9	678.3	638.6	590.3	531.3	517.6	518.0
45°	1779.5	1316.5	526.2	574.2	647.7	680.3	626.0	548.6	506.6	497.9	497.5
47.5°	1793.2	1269.4	508.5	565.5	647.3	664.2	600.5	531.3	489.3	486.9	488.5
50°	1784.2	1191.9	490.5	548.6	637.8	647.3	571.0	516.0	477.5	490.5	499.9
52.5°	1750.8	1091.7	468.8	525.4	620.9	628.0	556.1	506.6	468.8	486.1	493.6
55°	1742.1	1010.4	441.3	495.2	595.8	593.8	540.4	501.9	462.9	456.3	457.4
57.5°	1730.7	931.0	395.7	440.9	532.1	535.3	525.4	496.4	447.6	445.7	447.6
60°	1503.6	713.7	352.9	380.4	437.0	453.9	508.5	486.1	422.9	414.6	414.2
62.5°	982.1	432.3	314.0	331.7	356.1	375.7	463.7	456.7	395.7	390.6	394.2
65°	528.2	308.1	285.7	296.3	309.7	324.6	384.3	406.7	357.6	339.5	339.9
67.5°	270.0	262.1	264.5	272.0	282.2	289.6	310.1	329.7	305.0	289.6	289.2
70°	231.1	237.4	240.9	245.2	251.9	250.7	252.7	256.2	254.3	246.8	246.4
72.5°	196.9	206.7	207.5	208.3	210.6	205.1	201.6	195.7	196.1	197.3	197.7
75°	149.7	159.2	161.5	160.3	162.7	155.6	150.9	145.0	137.9	136.8	137.5
77.5°	97.5	104.9	108.5	107.7	108.9	103.4	101.0	94.7	86.5	83.3	83.3
80°	58.9	63.3	66.0	66.8	68.0	64.1	60.1	54.6	51.1	47.6	47.6
82.5°	35.8	38.5	40.5	40.5	41.7	37.3	34.2	30.3	28.7	25.5	25.5
85°	18.1	20.0	20.8	20.4	19.6	16.1	14.9	13.0	12.2	10.6	10.6
87.5°	4.3	5.5	5.5	3.9	3.9	2.0	1.2	0.4	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)