

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: P633099

Luminaire Tested: GWS-SA2E-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-722-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

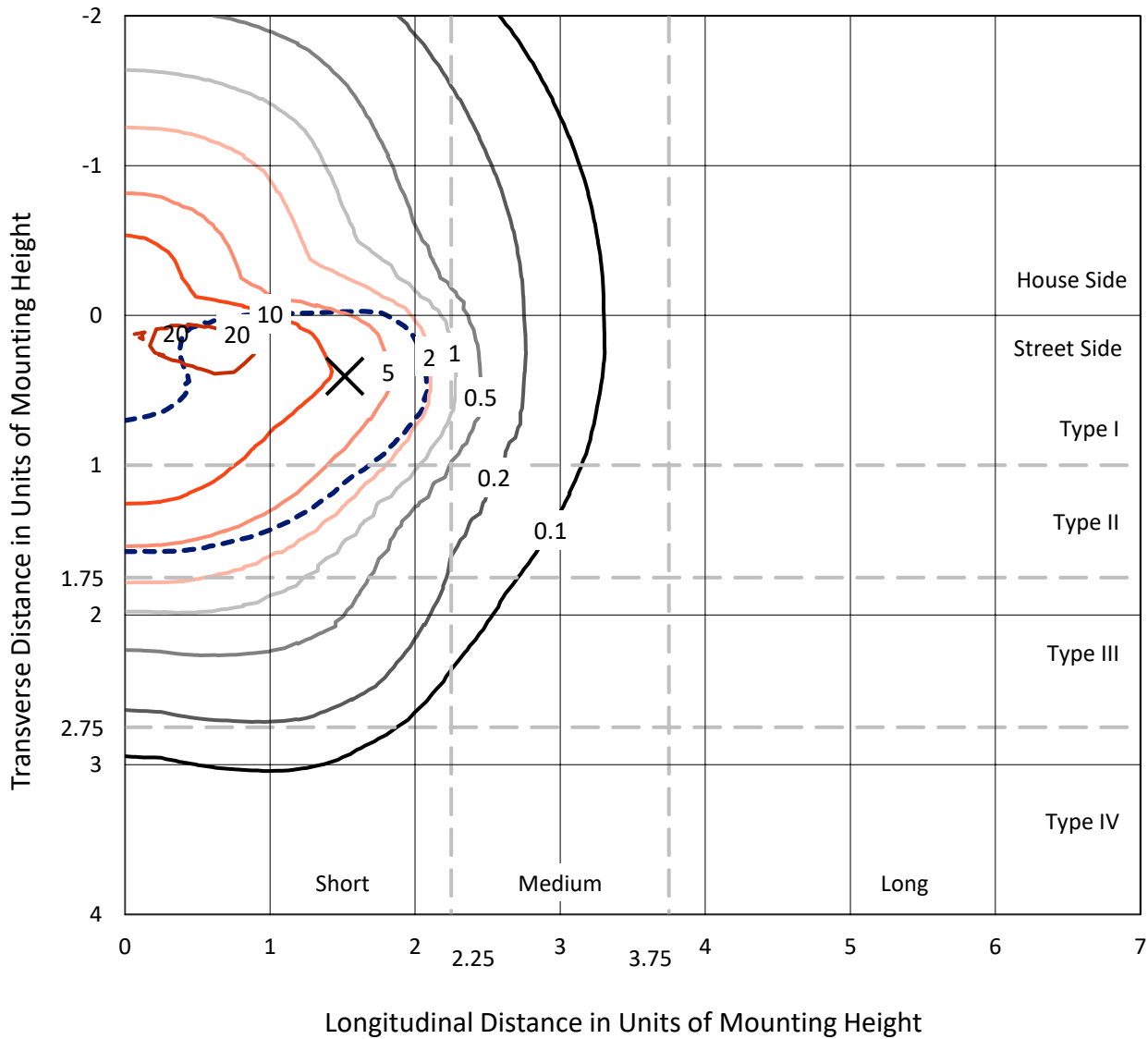
Lumens per Lamp: N/A  
Luminaire Lumens: 8960.6 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

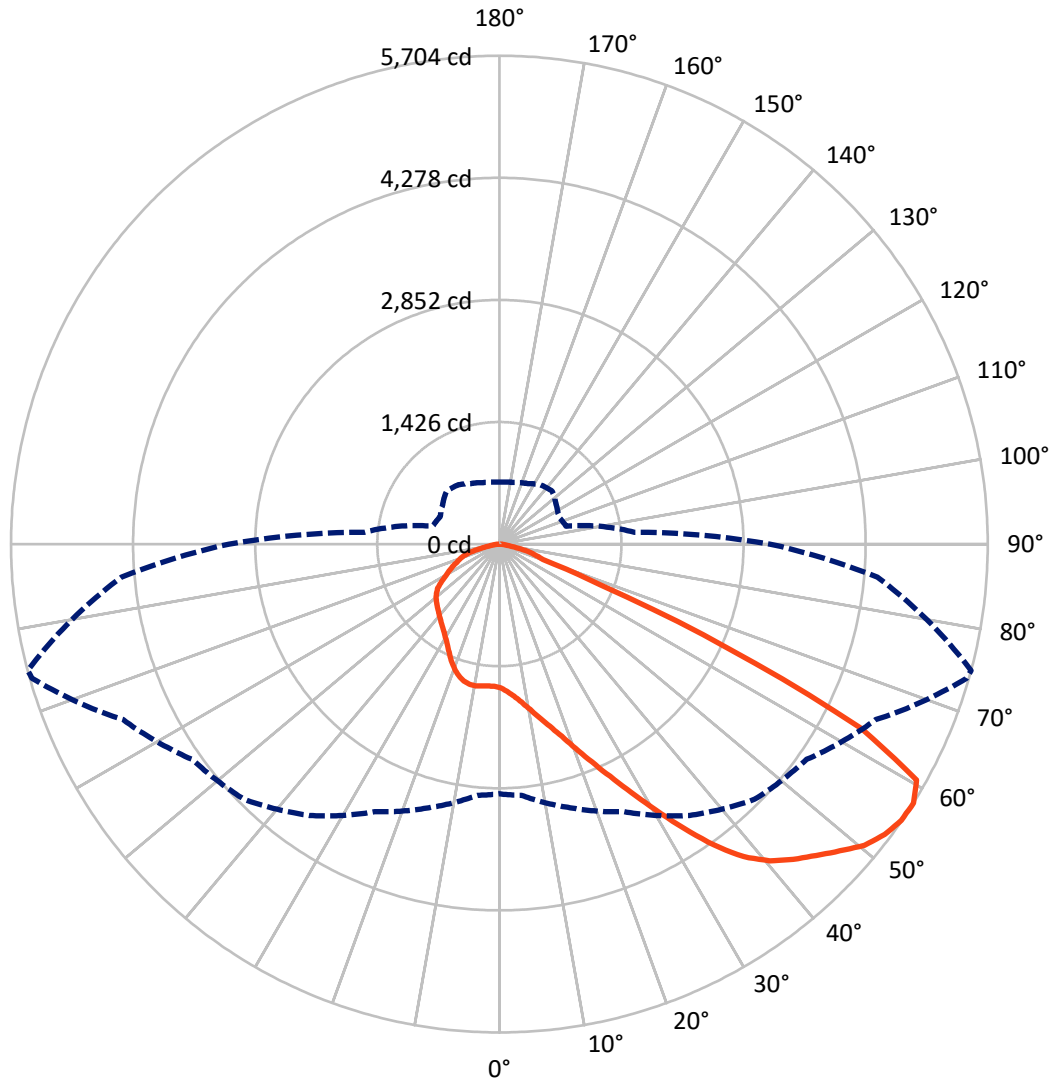
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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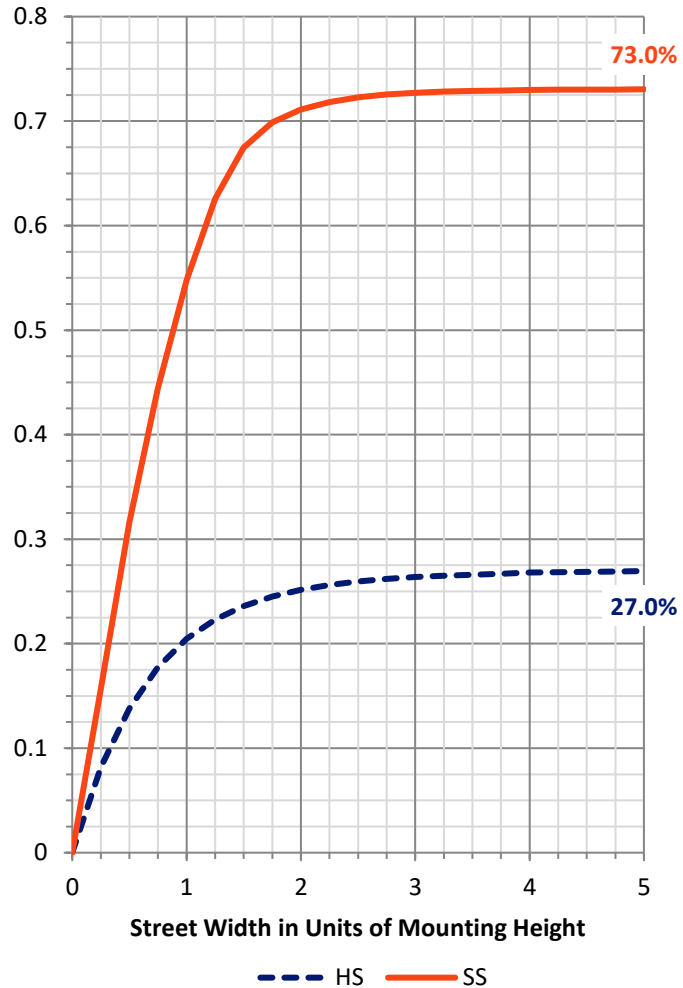
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2424.0	0.0	2424.0
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	6536.6	0.0	6536.6
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	8960.6	0.0	8960.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.9	1.9
10°-20°	534.6	6.0
20°-30°	948.2	10.6
30°-40°	1451.5	16.2
40°-50°	2021.1	22.6
50°-60°	2315.8	25.8
60°-70°	1189.9	13.3
70°-80°	299.6	3.3
80°-90°	32.0	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°	8960.6	100.0
0°-180°	8960.6	100.0

**Coefficient of Utilization**



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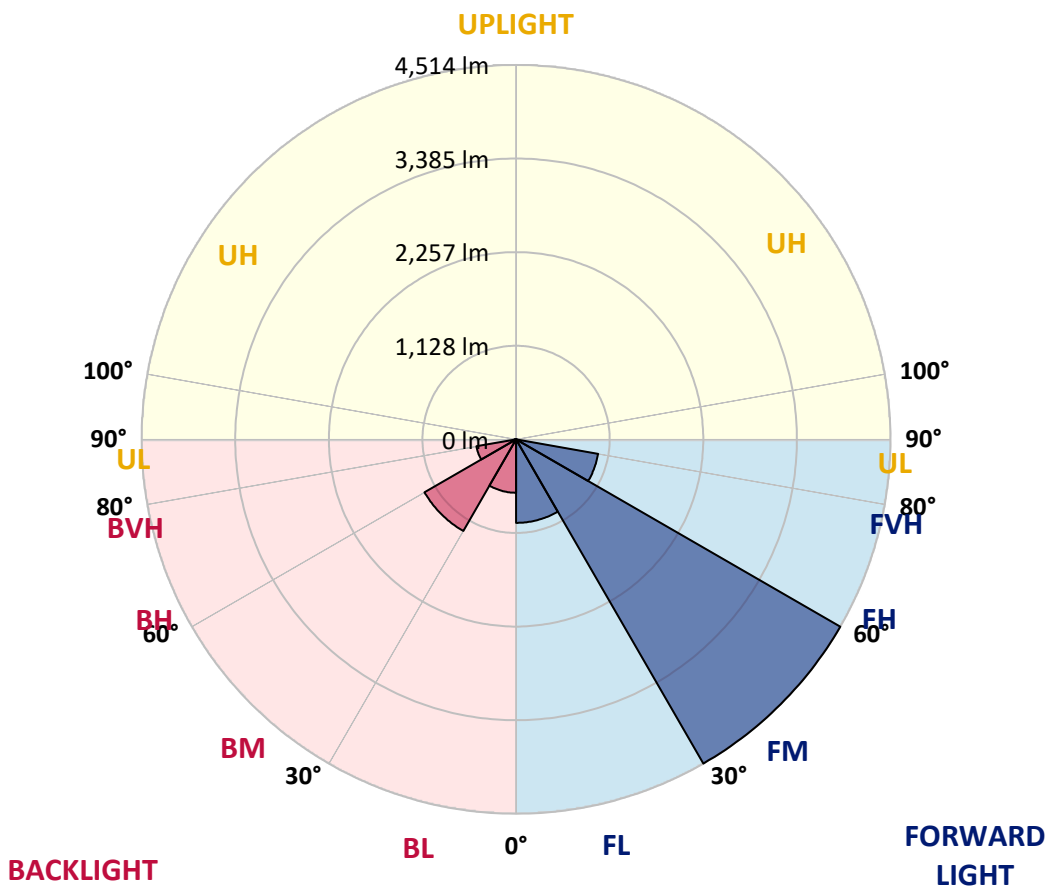
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.8	11.2			
FM (30°-60°)	4513.6	50.4			
FH (60°-80°)	1004.4	11.2			G1/1800
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	644.0	7.2	B2/1000		
BM (30°-60°)	1274.8	14.2	B2/2500		
BH (60°-80°)	485.1	5.4	B1/500		G1/500
BVH (80°-90°)	20.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1
2.5°	1802.9	1807.5	1802.9	1810.6	1795.2	1788.3	1771.3	1745.9	1725.9	1722.8	1700.4
5°	1943.2	1953.2	1947.0	1943.9	1923.1	1907.7	1882.3	1831.4	1789.8	1783.7	1739.7
7.5°	2033.3	2040.2	2040.2	2042.5	2034.8	2017.1	1990.1	1930.1	1871.5	1862.2	1796.0
10°	2063.3	2068.7	2078.8	2098.0	2113.4	2118.8	2101.1	2043.3	1971.7	1962.4	1870.0
12.5°	2070.3	2076.4	2091.9	2127.3	2169.7	2208.2	2211.3	2168.9	2088.8	2078.8	1955.5
15°	2083.4	2089.5	2110.3	2154.3	2216.7	2290.6	2336.1	2306.8	2218.2	2207.4	2052.6
17.5°	2081.8	2088.8	2119.6	2178.1	2262.1	2369.2	2457.1	2469.4	2377.7	2359.2	2162.7
20°	2078.0	2084.1	2117.3	2188.9	2292.9	2440.1	2598.8	2662.8	2564.2	2547.2	2291.4
22.5°	2108.8	2115.7	2141.2	2200.5	2309.1	2494.8	2729.8	2883.9	2785.3	2761.4	2439.3
25°	2178.1	2188.2	2203.6	2244.4	2338.4	2543.4	2863.9	3134.3	3033.4	3004.9	2600.4
27.5°	2285.2	2297.6	2319.1	2338.4	2403.9	2605.0	2997.2	3414.8	3313.8	3283.8	2770.6
30°	2416.2	2432.4	2460.1	2473.2	2517.9	2695.9	3142.0	3703.7	3645.1	3603.5	2962.5
32.5°	2597.3	2619.6	2645.8	2649.7	2676.6	2833.8	3285.3	3990.3	3989.5	3960.3	3180.5
35°	2833.1	2856.9	2862.3	2867.7	2880.8	3023.4	3458.7	4251.5	4352.4	4318.5	3417.8
37.5°	3090.4	3125.1	3133.5	3109.7	3128.1	3251.4	3653.6	4461.1	4668.3	4632.1	3647.5
40°	3365.5	3379.3	3402.4	3364.7	3387.8	3512.6	3844.7	4595.1	4904.1	4865.6	3828.5
42.5°	3562.7	3588.1	3622.8	3608.9	3622.0	3736.1	3978.8	4659.9	5072.1	5033.5	3958.7
45°	3776.9	3784.6	3806.9	3803.9	3811.6	3917.9	4075.1	4688.4	5222.3	5187.6	4069.7
47.5°	3963.3	3974.9	3989.5	3972.6	3955.6	4025.0	4153.7	4713.0	5395.7	5354.1	4186.0
50°	4142.9	4152.9	4170.6	4121.3	4058.1	4075.8	4192.2	4746.9	5558.2	5529.0	4277.7
52.5°	4176.0	4186.8	4270.0	4280.0	4199.1	4136.7	4260.0	4821.7	5653.8	5635.3	4310.8
55°	3759.2	3778.4	3944.1	4134.4	4333.9	4313.9	4368.6	4861.0	5691.5	5696.2	4370.2
57.5°	2917.8	2945.5	3187.5	3448.7	3868.6	4216.1	4382.5	4850.9	5678.4	5703.9	4431.0
60°	1913.9	1930.1	2216.7	2509.5	2944.8	3425.6	3922.5	4670.6	5562.1	5598.3	4415.6
62.5°	1155.7	1174.2	1404.6	1626.5	1883.1	2204.3	2660.5	3753.8	4662.2	4743.1	3536.5
65°	806.7	831.3	1033.2	1215.8	1304.4	1238.2	1347.6	2096.5	2904.7	2938.6	2161.2
67.5°	584.8	601.7	767.4	984.7	1082.5	874.5	666.5	928.4	1265.1	1277.5	891.4
70°	382.9	402.2	552.4	749.7	883.7	708.8	498.5	502.4	532.4	538.6	517.8
72.5°	210.3	221.9	341.3	497.7	522.4	423.8	389.1	417.6	438.4	438.4	443.8
75°	108.6	118.7	139.5	164.1	198.0	231.9	280.5	322.8	345.2	346.7	344.4
77.5°	55.5	59.3	74.7	80.9	88.6	103.2	134.1	171.8	191.8	199.6	198.0
80°	26.2	27.7	31.6	37.0	45.5	57.8	72.4	86.3	98.6	100.2	108.6
82.5°	13.9	15.4	17.0	20.0	24.7	30.8	42.4	50.9	58.6	60.1	67.0
85°	5.4	6.2	6.9	7.7	10.8	13.1	17.7	23.9	29.3	29.3	34.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	3.1	3.9	5.4	5.4	9.2
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°	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1	1678.1
2.5°	1695.1	1672.7	1662.7	1646.5	1633.4	1618.8	1607.2	1598.7	1593.4	1590.3	1587.2
5°	1722.8	1688.9	1661.9	1629.6	1607.2	1585.6	1567.9	1555.6	1549.4	1544.8	1541.7
7.5°	1765.9	1720.5	1669.6	1619.5	1580.3	1545.6	1523.2	1510.1	1501.7	1498.6	1496.3
10°	1825.3	1762.1	1678.1	1598.7	1540.2	1502.4	1487.0	1480.9	1481.6	1480.1	1479.3
12.5°	1892.3	1806.0	1675.8	1561.8	1497.0	1474.7	1475.5	1485.5	1497.0	1500.1	1500.9
15°	1964.7	1849.2	1653.4	1514.0	1463.1	1465.5	1485.5	1509.4	1530.9	1539.4	1541.0
17.5°	2043.3	1885.4	1612.6	1461.6	1435.4	1460.1	1497.0	1536.3	1567.9	1581.8	1585.6
20°	2131.1	1916.2	1554.8	1410.0	1409.2	1450.0	1504.0	1555.6	1595.7	1614.2	1617.2
22.5°	2224.4	1935.4	1483.9	1362.2	1382.2	1436.9	1498.6	1552.5	1594.9	1613.4	1617.2
25°	2318.4	1941.6	1406.1	1318.3	1354.5	1416.1	1472.4	1515.5	1555.6	1571.8	1574.9
27.5°	2406.2	1923.9	1332.2	1280.5	1329.1	1385.3	1423.1	1446.2	1473.9	1486.3	1488.6
30°	2495.6	1888.4	1269.8	1250.5	1300.6	1342.9	1359.9	1361.4	1372.2	1372.2	1373.8
32.5°	2585.7	1836.1	1215.0	1221.2	1265.1	1292.9	1295.2	1277.5	1264.4	1242.8	1242.0
35°	2689.7	1782.9	1170.4	1188.1	1223.5	1240.5	1233.5	1199.6	1168.0	1132.6	1131.1
37.5°	2786.1	1728.2	1132.6	1154.2	1176.5	1188.9	1172.7	1131.8	1105.6	1069.4	1064.0
40°	2865.4	1678.9	1096.4	1118.7	1129.5	1140.3	1114.1	1081.0	1084.8	1064.8	1064.0
42.5°	2911.6	1631.1	1062.5	1079.4	1086.4	1094.1	1071.0	1046.3	1067.1	1051.7	1052.5
45°	2945.5	1589.5	1031.7	1037.8	1054.8	1066.3	1044.8	1017.0	1021.7	962.3	948.5
47.5°	2984.1	1566.4	1002.4	996.2	1026.3	1046.3	1013.2	973.1	945.4	886.8	881.4
50°	3024.9	1557.9	971.6	954.6	990.8	1010.1	971.6	921.5	885.3	853.7	850.6
52.5°	3038.8	1557.1	933.1	904.5	940.8	967.7	935.4	884.5	841.4	810.5	809.0
55°	3093.5	1579.5	883.7	836.0	869.9	925.3	901.5	828.3	793.6	779.7	778.2
57.5°	3157.4	1583.3	805.9	761.2	808.2	873.7	843.7	780.5	742.7	725.8	724.3
60°	3131.2	1488.6	722.7	704.2	755.8	825.2	797.4	742.7	698.8	682.6	681.1
62.5°	2386.2	1050.9	661.8	654.9	699.6	755.1	749.7	692.7	651.1	639.5	638.0
65°	1435.4	738.1	603.3	602.5	634.1	687.3	694.2	648.0	604.1	587.9	587.9
67.5°	709.6	564.8	537.0	533.2	553.2	591.0	620.2	582.5	545.5	530.1	527.8
70°	501.6	497.7	488.5	477.7	481.5	497.0	509.3	477.7	438.4	423.0	419.9
72.5°	433.8	434.6	428.4	419.9	416.8	406.0	395.3	372.1	348.3	332.1	333.6
75°	336.7	338.2	342.1	339.0	330.5	319.0	307.4	278.1	258.9	243.5	240.4
77.5°	196.5	204.2	216.5	213.4	215.0	198.8	194.2	165.7	147.9	137.1	134.8
80°	110.9	115.6	121.0	124.8	120.2	113.3	103.2	87.8	82.4	74.7	73.2
82.5°	67.0	71.7	74.0	77.0	75.5	66.3	58.6	48.5	43.9	40.1	39.3
85°	33.9	37.0	39.3	40.8	36.2	30.0	27.0	21.6	18.5	16.2	16.2
87.5°	8.5	9.2	10.8	9.2	8.5	3.9	3.1	0.8	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)