

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: P632824

Luminaire Tested: GWS-SA2D-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632824  
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

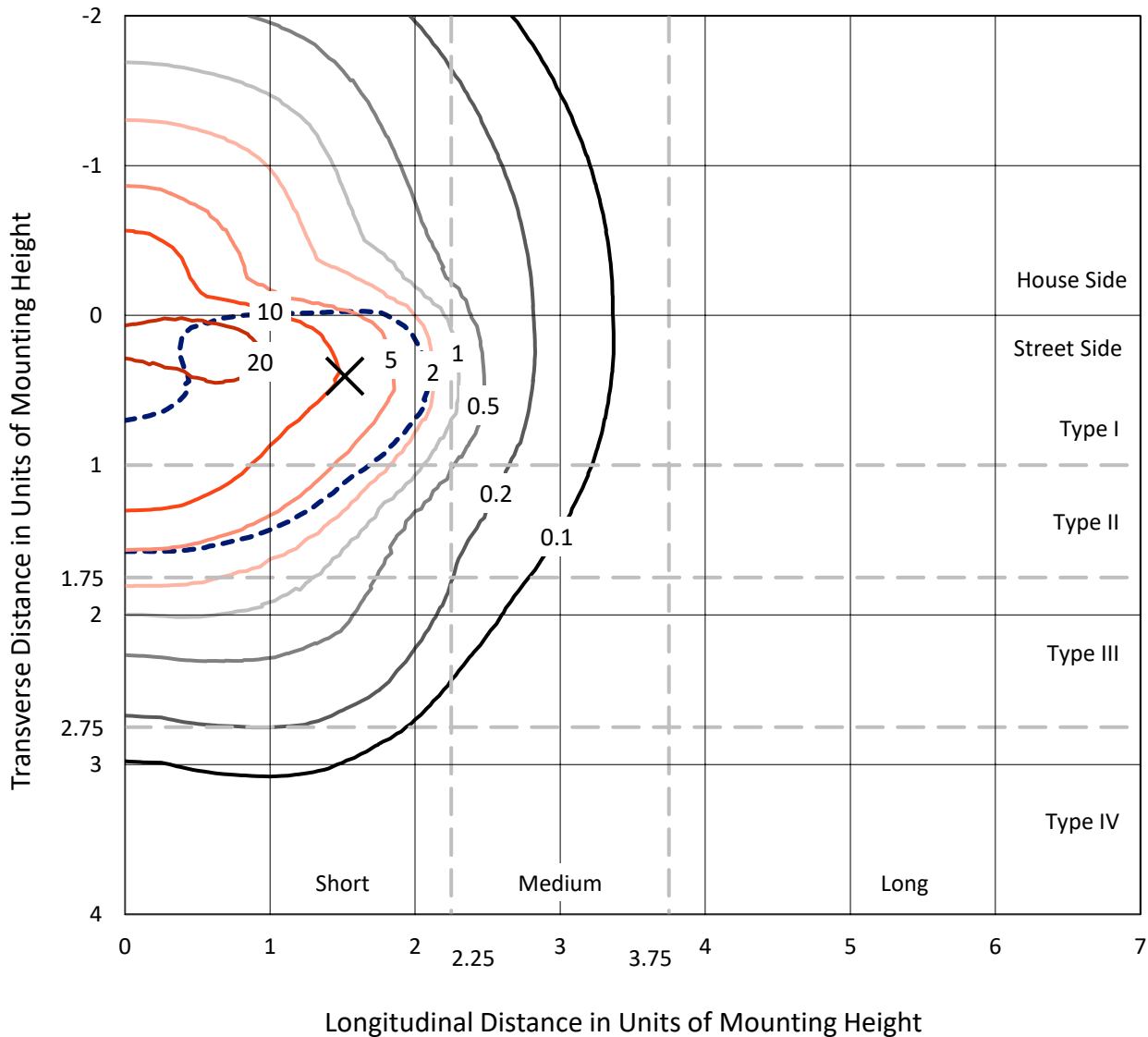
Lumens per Lamp: N/A  
Luminaire Lumens: 9734.6 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

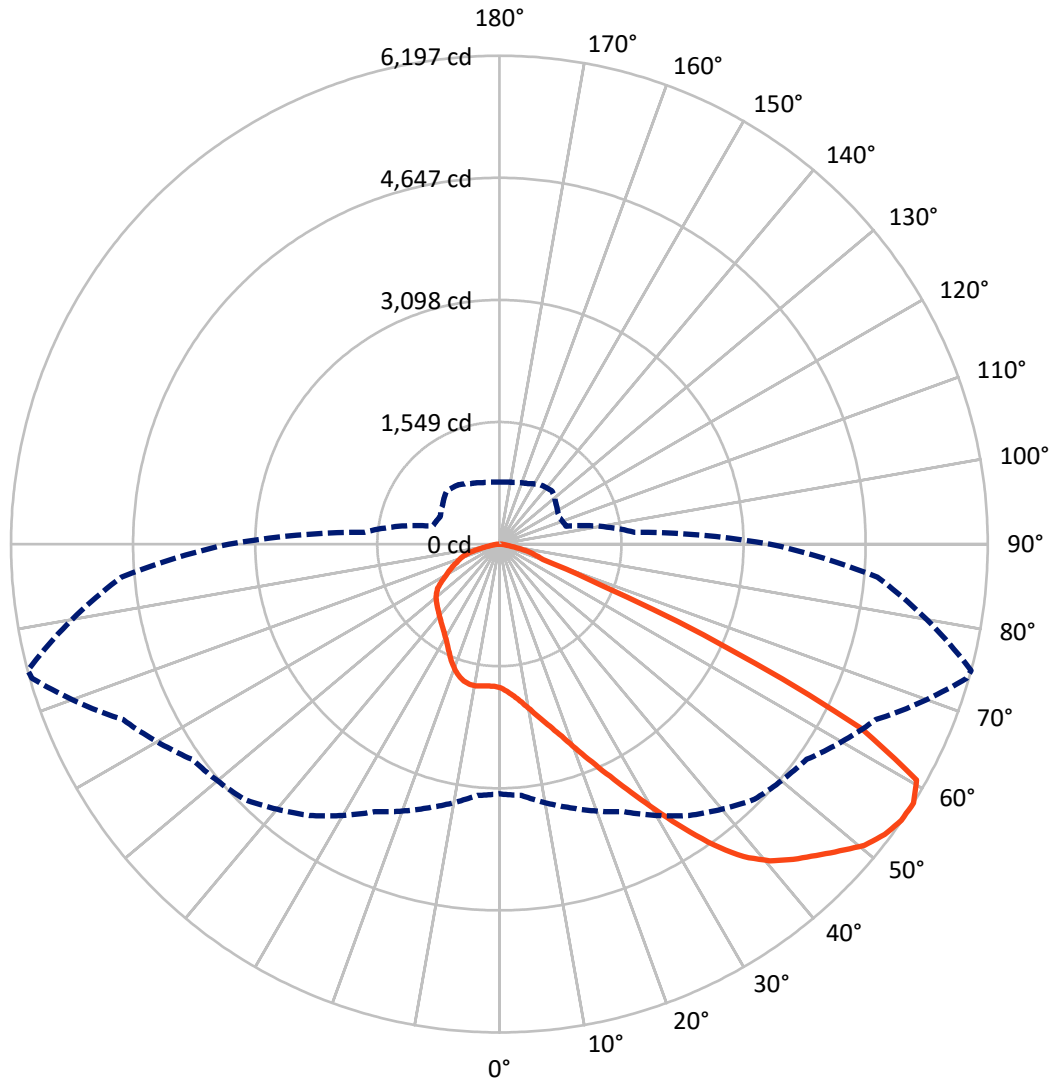
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.8 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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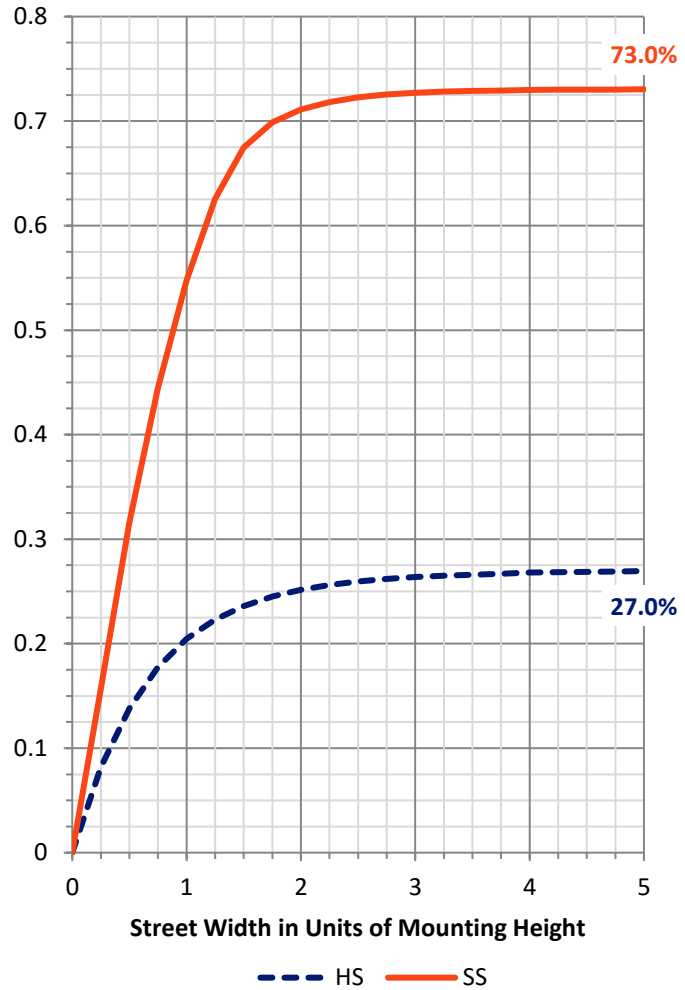
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2633.4	0.0	2633.4
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	7101.2	0.0	7101.2
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	9734.6	0.0	9734.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.4	1.9
10°-20°	580.8	6.0
20°-30°	1030.1	10.6
30°-40°	1576.9	16.2
40°-50°	2195.7	22.6
50°-60°	2515.8	25.8
60°-70°	1292.7	13.3
70°-80°	325.4	3.3
80°-90°	34.8	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°	9734.6	100.0
0°-180°	9734.6	100.0

**Coefficient of Utilization**



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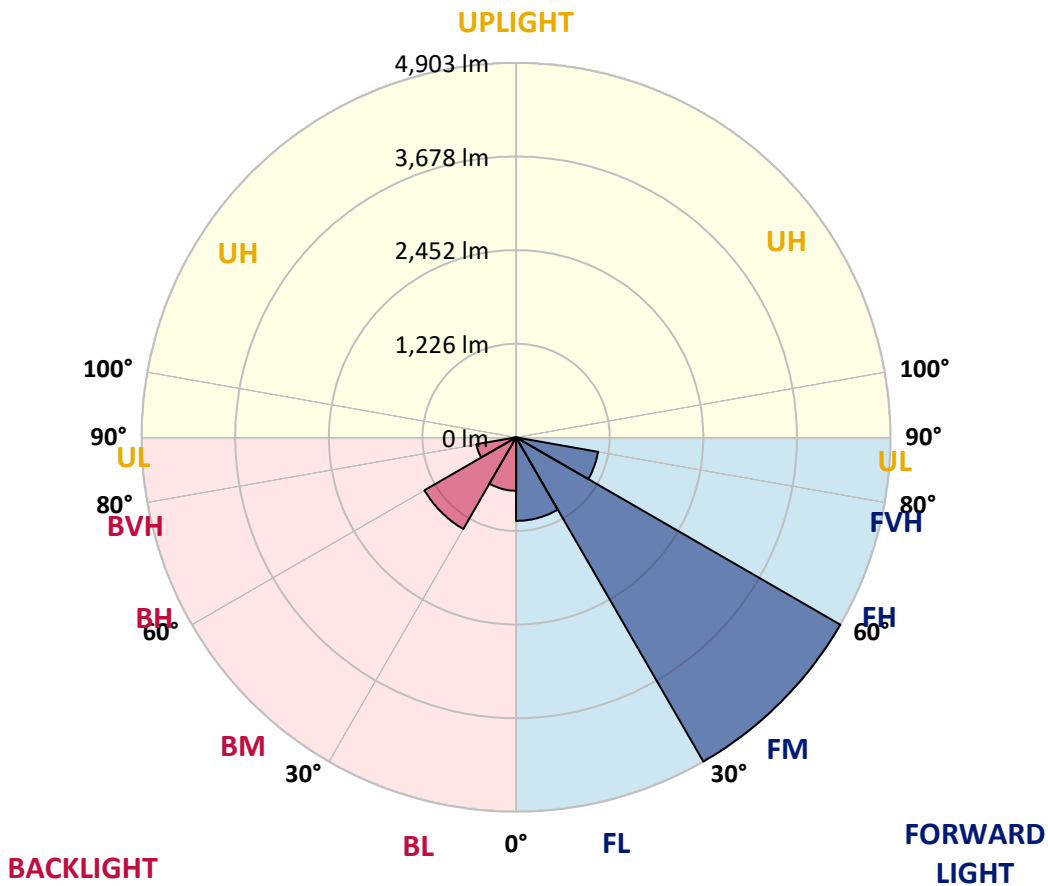
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.7	11.2			
FM (30°-60°)	4903.4	50.4			
FH (60°-80°)	1091.2	11.2			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	699.6	7.2	B2/1000		
BM (30°-60°)	1384.9	14.2	B2/2500		
BH (60°-80°)	527.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	21.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1
2.5°	1958.7	1963.7	1958.7	1967.0	1950.3	1942.8	1924.3	1896.7	1875.0	1871.6	1847.3
5°	2111.0	2121.9	2115.2	2111.8	2089.2	2072.5	2044.9	1989.6	1944.4	1937.7	1890.0
7.5°	2208.9	2216.5	2216.5	2219.0	2210.6	2191.4	2162.1	2096.8	2033.2	2023.1	1951.1
10°	2241.6	2247.4	2258.3	2279.2	2296.0	2301.8	2282.6	2219.8	2142.0	2131.9	2031.5
12.5°	2249.1	2255.8	2272.5	2311.0	2357.1	2398.9	2402.3	2356.2	2269.2	2258.3	2124.4
15°	2263.3	2270.0	2292.6	2340.3	2408.1	2488.5	2537.9	2506.1	2409.8	2398.1	2229.9
17.5°	2261.7	2269.2	2302.7	2366.3	2457.5	2573.9	2669.3	2682.7	2583.1	2563.0	2349.6
20°	2257.5	2264.2	2300.2	2378.0	2491.0	2650.9	2823.3	2892.8	2785.6	2767.2	2489.3
22.5°	2291.0	2298.5	2326.1	2390.6	2508.6	2710.3	2965.6	3133.0	3025.9	2999.9	2650.0
25°	2366.3	2377.2	2393.9	2438.3	2540.4	2763.0	3111.2	3405.0	3295.4	3264.4	2825.0
27.5°	2482.6	2496.0	2519.5	2540.4	2611.5	2830.0	3256.1	3709.7	3600.1	3567.4	3010.0
30°	2624.9	2642.5	2672.6	2686.9	2735.4	2928.8	3413.4	4023.6	3960.0	3914.8	3218.4
32.5°	2821.6	2845.9	2874.4	2878.6	2907.9	3078.6	3569.1	4335.0	4334.2	4302.3	3455.3
35°	3077.8	3103.7	3109.6	3115.4	3129.7	3284.5	3757.4	4618.7	4728.4	4691.6	3713.1
37.5°	3357.3	3395.0	3404.2	3378.3	3398.4	3532.3	3969.2	4846.4	5071.6	5032.2	3962.5
40°	3656.2	3671.2	3696.3	3655.3	3680.4	3816.0	4176.8	4992.1	5327.7	5285.9	4159.2
42.5°	3870.4	3898.1	3935.7	3920.7	3934.9	4058.8	4322.4	5062.4	5510.2	5468.3	4300.7
45°	4103.1	4111.5	4135.8	4132.4	4140.8	4256.3	4427.1	5093.3	5673.4	5635.7	4421.2
47.5°	4305.7	4318.3	4334.2	4315.7	4297.3	4372.7	4512.4	5120.1	5861.7	5816.5	4547.6
50°	4500.7	4511.6	4530.9	4477.3	4408.7	4427.9	4554.3	5157.0	6038.4	6006.5	4647.2
52.5°	4536.7	4548.4	4638.8	4649.7	4561.8	4494.0	4628.0	5238.1	6142.1	6122.1	4683.2
55°	4083.9	4104.8	4284.8	4491.5	4708.3	4686.5	4746.0	5280.8	6183.2	6188.2	4747.6
57.5°	3169.8	3200.0	3462.8	3746.6	4202.7	4580.2	4761.0	5270.0	6168.9	6196.6	4813.8
60°	2079.2	2096.8	2408.1	2726.2	3199.1	3721.4	4261.3	5074.1	6042.5	6081.9	4797.0
62.5°	1255.5	1275.6	1525.9	1767.0	2045.7	2394.8	2890.3	4078.0	5064.9	5152.8	3842.0
65°	876.4	903.2	1122.5	1320.8	1417.1	1345.1	1464.0	2277.6	3155.6	3192.4	2347.9
67.5°	635.3	653.7	833.7	1069.7	1176.0	950.0	724.0	1008.6	1374.4	1387.8	968.4
70°	416.0	436.9	600.2	814.4	960.1	770.1	541.6	545.7	578.4	585.1	562.5
72.5°	228.5	241.1	370.8	540.7	567.5	460.4	422.7	453.7	476.3	476.3	482.1
75°	118.0	128.9	151.5	178.3	215.1	251.9	304.7	350.7	375.0	376.7	374.2
77.5°	60.3	64.5	81.2	87.9	96.3	112.2	145.6	186.7	208.4	216.8	215.1
80°	28.5	30.1	34.3	40.2	49.4	62.8	78.7	93.7	107.1	108.8	118.0
82.5°	15.1	16.7	18.4	21.8	26.8	33.5	46.0	55.2	63.6	65.3	72.8
85°	5.9	6.7	7.5	8.4	11.7	14.2	19.3	25.9	31.8	31.8	37.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	4.2	5.9	5.9	10.0
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°	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1	1823.1
2.5°	1841.5	1817.2	1806.3	1788.7	1774.5	1758.6	1746.0	1736.8	1731.0	1727.6	1724.3
5°	1871.6	1834.8	1805.5	1770.3	1746.0	1722.6	1703.4	1690.0	1683.3	1678.3	1674.9
7.5°	1918.5	1869.1	1813.8	1759.4	1716.8	1679.1	1654.8	1640.6	1631.4	1628.0	1625.5
10°	1982.9	1914.3	1823.1	1736.8	1673.2	1632.2	1615.5	1608.8	1609.6	1607.9	1607.1
12.5°	2055.8	1962.0	1820.5	1696.7	1626.4	1602.1	1602.9	1613.8	1626.4	1629.7	1630.5
15°	2134.4	2008.9	1796.3	1644.8	1589.5	1592.0	1613.8	1639.7	1663.2	1672.4	1674.1
17.5°	2219.8	2048.2	1751.9	1587.9	1559.4	1586.2	1626.4	1669.0	1703.4	1718.4	1722.6
20°	2315.2	2081.7	1689.1	1531.8	1530.9	1575.3	1633.9	1690.0	1733.5	1753.6	1756.9
22.5°	2416.5	2102.6	1612.1	1479.9	1501.6	1561.1	1628.0	1686.6	1732.7	1752.7	1756.9
25°	2518.6	2109.3	1527.6	1432.2	1471.5	1538.5	1599.6	1646.4	1690.0	1707.5	1710.9
27.5°	2614.1	2090.1	1447.2	1391.1	1443.9	1505.0	1546.0	1571.1	1601.2	1614.6	1617.1
30°	2711.1	2051.6	1379.4	1358.5	1412.9	1458.9	1477.4	1479.0	1490.8	1490.8	1492.4
32.5°	2809.1	1994.6	1320.0	1326.7	1374.4	1404.5	1407.1	1387.8	1373.6	1350.1	1349.3
35°	2922.1	1936.9	1271.5	1290.7	1329.2	1347.6	1340.1	1303.3	1268.9	1230.4	1228.8
37.5°	3026.7	1877.5	1230.4	1253.9	1278.1	1291.5	1274.0	1229.6	1201.1	1161.8	1155.9
40°	3112.9	1823.9	1191.1	1215.4	1227.1	1238.8	1210.3	1174.4	1178.5	1156.8	1155.9
42.5°	3163.1	1772.0	1154.3	1172.7	1180.2	1188.6	1163.5	1136.7	1159.3	1142.5	1143.4
45°	3200.0	1726.8	1120.8	1127.5	1145.9	1158.5	1135.0	1104.9	1109.9	1045.5	1030.4
47.5°	3241.8	1701.7	1089.0	1082.3	1114.9	1136.7	1100.7	1057.2	1027.0	963.4	957.6
50°	3286.2	1692.5	1055.5	1037.1	1076.4	1097.3	1055.5	1001.1	961.8	927.4	924.1
52.5°	3301.3	1691.6	1013.6	982.7	1022.0	1051.3	1016.2	960.9	914.0	880.6	878.9
55°	3360.7	1715.9	960.1	908.2	945.0	1005.3	979.3	899.8	862.1	847.1	845.4
57.5°	3430.2	1720.1	875.5	827.0	878.0	949.2	916.6	847.9	806.9	788.5	786.8
60°	3401.7	1617.1	785.1	765.0	821.1	896.5	866.3	806.9	759.2	741.6	739.9
62.5°	2592.3	1141.7	719.0	711.5	760.0	820.3	814.4	752.5	707.3	694.7	693.1
65°	1559.4	801.9	655.4	654.6	688.9	746.6	754.2	703.9	656.2	638.7	638.7
67.5°	770.9	613.5	583.4	579.2	601.0	642.0	673.8	632.8	592.6	575.9	573.4
70°	544.9	540.7	530.7	519.0	523.1	539.9	553.3	519.0	476.3	459.5	456.2
72.5°	471.2	472.1	465.4	456.2	452.8	441.1	429.4	404.3	378.3	360.8	362.4
75°	365.8	367.5	371.6	368.3	359.1	346.5	334.0	302.2	281.2	264.5	261.2
77.5°	213.4	221.8	235.2	231.9	233.5	216.0	210.9	180.0	160.7	149.0	146.5
80°	120.5	125.6	131.4	135.6	130.6	123.0	112.2	95.4	89.6	81.2	79.5
82.5°	72.8	77.8	80.4	83.7	82.0	72.0	63.6	52.7	47.7	43.5	42.7
85°	36.8	40.2	42.7	44.4	39.3	32.6	29.3	23.4	20.1	17.6	17.6
87.5°	9.2	10.0	11.7	10.0	9.2	4.2	3.3	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)