

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: P633539

Luminaire Tested: GWS-SA2E-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633539
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9663.6 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

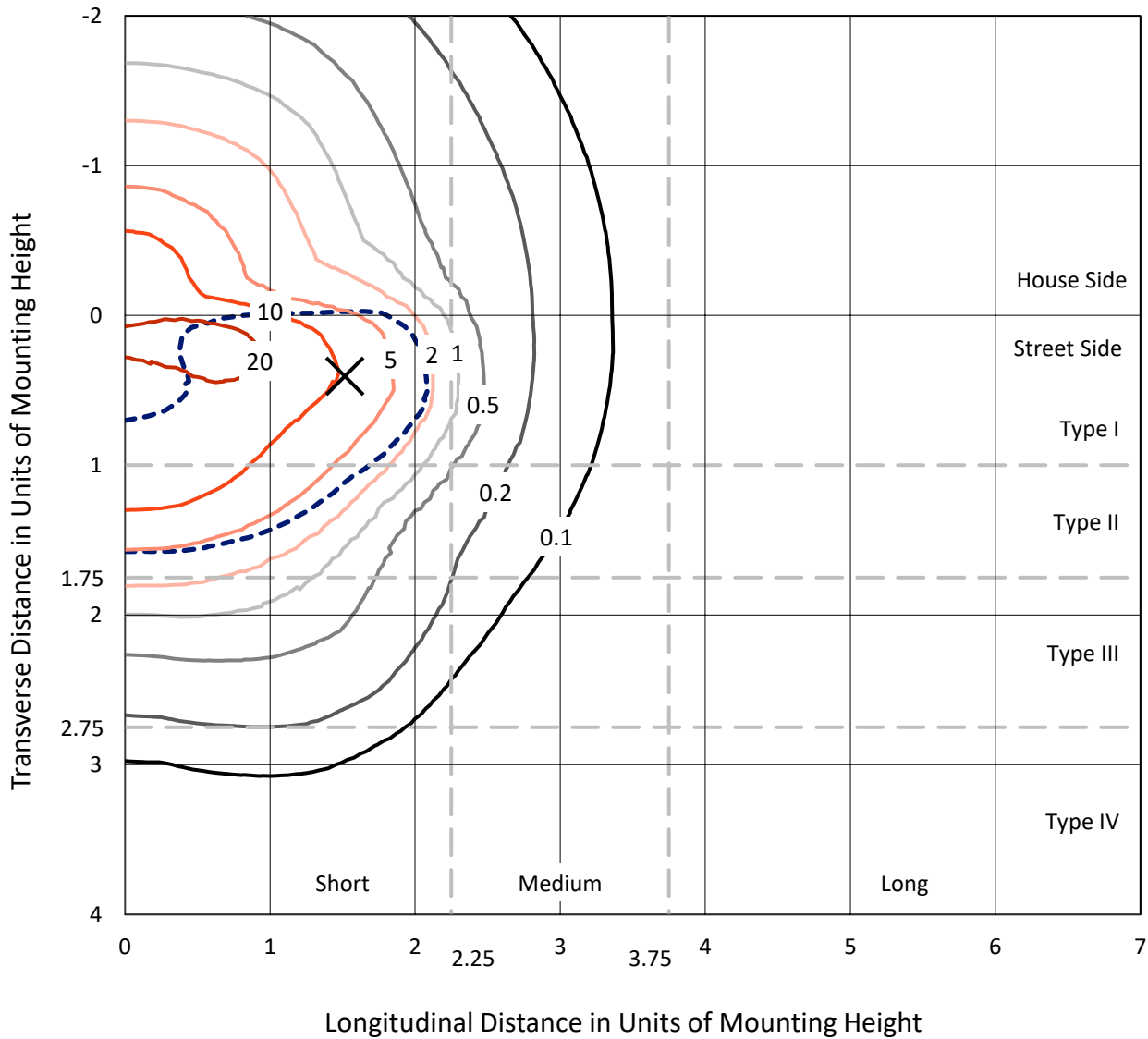
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

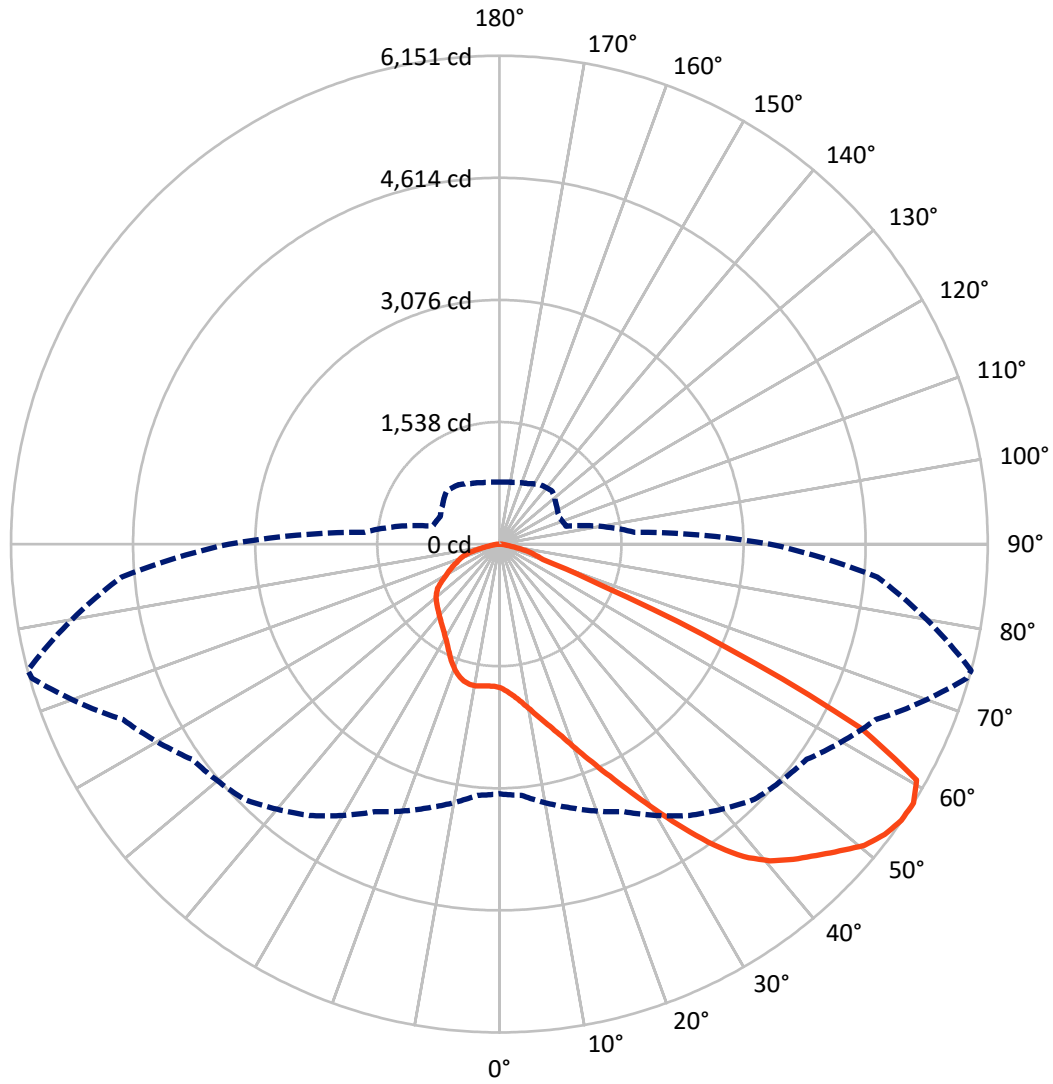
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 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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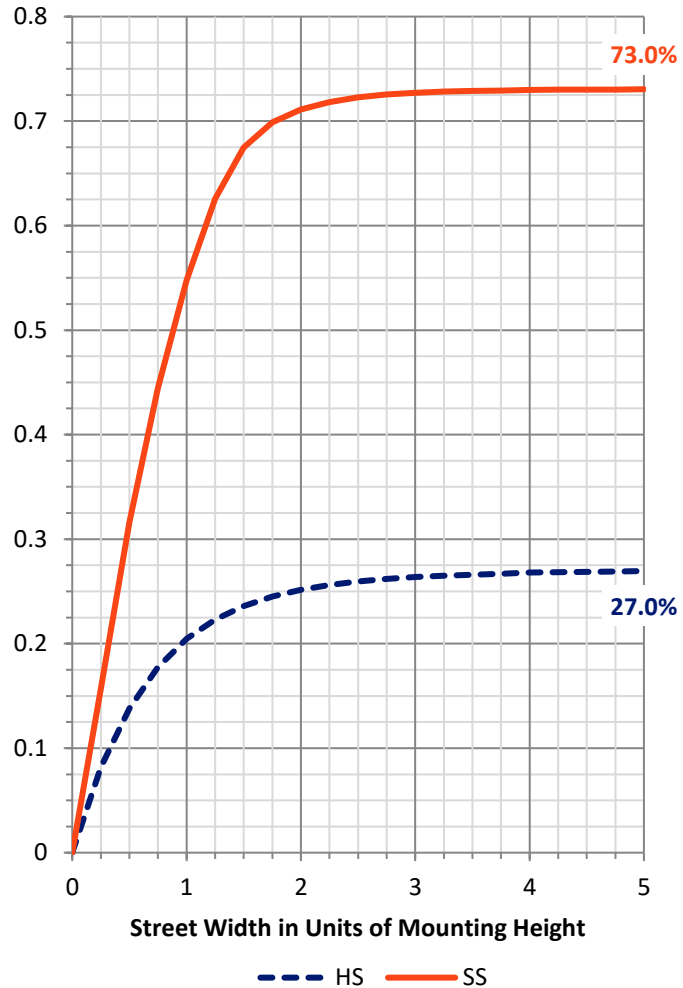
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.2	0.0	2614.2
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	7049.4	0.0	7049.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	9663.6	0.0	9663.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.9
10°-20°	576.6	6.0
20°-30°	1022.6	10.6
30°-40°	1565.4	16.2
40°-50°	2179.7	22.6
50°-60°	2497.5	25.8
60°-70°	1283.2	13.3
70°-80°	323.1	3.3
80°-90°	34.5	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°	9663.6	100.0
0°-180°	9663.6	100.0

Coefficient of Utilization



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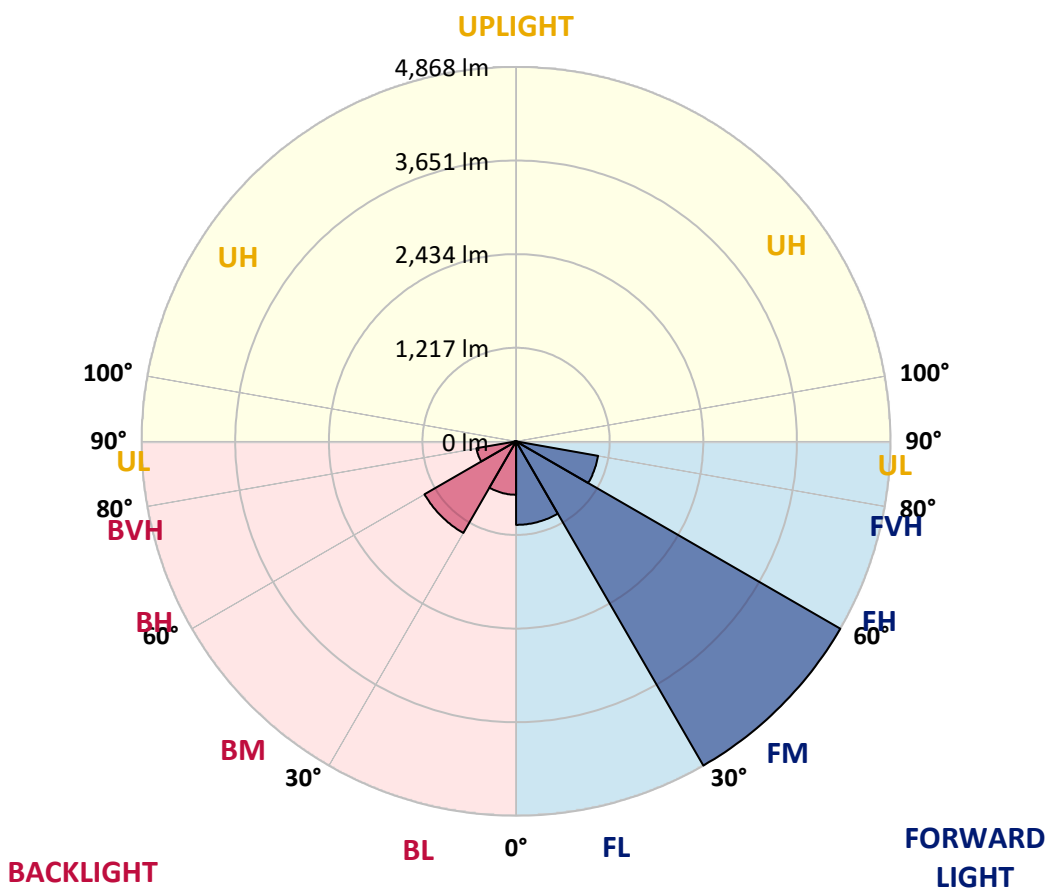
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.8	11.2			
FM (30°-60°)	4867.7	50.4			
FH (60°-80°)	1083.2	11.2			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	694.5	7.2	B2/1000		
BM (30°-60°)	1374.8	14.2	B2/2500		
BH (60°-80°)	523.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	21.8	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°	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	1944.4	1949.4	1944.4	1952.7	1936.1	1928.6	1910.3	1882.9	1861.3	1858.0	1833.9
5°	2095.6	2106.4	2099.8	2096.4	2074.0	2057.4	2030.0	1975.1	1930.2	1923.6	1876.2
7.5°	2192.8	2200.3	2200.3	2202.8	2194.5	2175.4	2146.3	2081.5	2018.3	2008.4	1936.9
10°	2225.2	2231.0	2241.8	2262.6	2279.2	2285.1	2265.9	2203.6	2126.3	2116.4	2016.7
12.5°	2232.7	2239.3	2256.0	2294.2	2339.9	2381.4	2384.8	2339.1	2252.6	2241.8	2108.9
15°	2246.8	2253.5	2275.9	2323.3	2390.6	2470.3	2519.4	2487.8	2392.2	2380.6	2213.6
17.5°	2245.2	2252.6	2285.9	2349.0	2439.6	2555.1	2649.8	2663.1	2564.2	2544.3	2332.4
20°	2241.0	2247.7	2283.4	2360.7	2472.8	2631.5	2802.7	2871.7	2765.3	2747.0	2471.2
22.5°	2274.2	2281.7	2309.1	2373.1	2490.3	2690.5	2944.0	3110.2	3003.8	2978.0	2630.7
25°	2349.0	2359.8	2376.5	2420.5	2521.9	2742.9	3088.6	3380.2	3271.4	3240.6	2804.4
27.5°	2464.5	2477.8	2501.1	2521.9	2592.5	2809.4	3232.3	3682.7	3573.8	3541.4	2988.0
30°	2605.8	2623.2	2653.2	2667.3	2715.5	2907.4	3388.5	3994.3	3931.1	3886.2	3194.9
32.5°	2801.1	2825.2	2853.4	2857.6	2886.6	3056.2	3543.1	4303.4	4302.5	4271.0	3430.1
35°	3055.3	3081.1	3086.9	3092.7	3106.8	3260.6	3730.0	4585.1	4693.9	4657.3	3686.0
37.5°	3332.9	3370.2	3379.4	3353.6	3373.6	3506.5	3940.3	4811.1	5034.6	4995.5	3933.6
40°	3629.5	3644.4	3669.4	3628.7	3653.6	3788.2	4146.3	4955.7	5288.9	5247.3	4128.9
42.5°	3842.2	3869.6	3907.0	3892.1	3906.2	4029.2	4290.9	5025.5	5470.0	5428.4	4269.3
45°	4073.2	4081.5	4105.6	4102.3	4110.6	4225.3	4394.8	5056.2	5632.0	5594.6	4389.0
47.5°	4274.3	4286.8	4302.5	4284.3	4266.0	4340.8	4479.5	5082.8	5819.0	5774.1	4514.4
50°	4467.9	4478.7	4497.8	4444.6	4376.5	4395.6	4521.1	5119.3	5994.3	5962.7	4613.3
52.5°	4503.6	4515.3	4605.0	4615.8	4528.6	4461.3	4594.2	5199.9	6097.3	6077.4	4649.0
55°	4054.1	4074.9	4253.5	4458.8	4674.0	4652.4	4711.4	5242.3	6138.1	6143.0	4713.0
57.5°	3146.7	3176.6	3437.5	3719.2	4172.1	4546.8	4726.3	5231.5	6123.9	6151.4	4778.7
60°	2064.0	2081.5	2390.6	2706.3	3175.8	3694.3	4230.3	5037.1	5998.5	6037.5	4762.0
62.5°	1246.4	1266.3	1514.8	1754.1	2030.8	2377.3	2869.2	4048.3	5027.9	5115.2	3814.0
65°	870.0	896.6	1114.3	1311.2	1406.8	1335.3	1453.3	2261.0	3132.6	3169.2	2330.8
67.5°	630.7	649.0	827.6	1061.9	1167.5	943.1	718.8	1001.3	1364.4	1377.7	961.4
70°	413.0	433.7	595.8	808.5	953.1	764.5	537.6	541.8	574.2	580.8	558.4
72.5°	226.8	239.3	368.1	536.8	563.4	457.0	419.6	450.4	472.8	472.8	478.6
75°	117.2	128.0	150.4	177.0	213.5	250.1	302.5	348.2	372.3	373.9	371.4
77.5°	59.8	64.0	80.6	87.2	95.6	111.3	144.6	185.3	206.9	215.2	213.5
80°	28.3	29.9	34.1	39.9	49.0	62.3	78.1	93.1	106.4	108.0	117.2
82.5°	15.0	16.6	18.3	21.6	26.6	33.2	45.7	54.8	63.2	64.8	72.3
85°	5.8	6.6	7.5	8.3	11.6	14.1	19.1	25.8	31.6	31.6	37.4
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	4.2	5.8	5.8	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°	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8	1809.8
2.5°	1828.0	1803.9	1793.1	1775.7	1761.6	1745.8	1733.3	1724.2	1718.4	1715.0	1711.7
5°	1858.0	1821.4	1792.3	1757.4	1733.3	1710.0	1690.9	1677.6	1671.0	1666.0	1662.7
7.5°	1904.5	1855.5	1800.6	1746.6	1704.2	1666.8	1642.7	1628.6	1619.5	1616.2	1613.7
10°	1968.5	1900.3	1809.8	1724.2	1661.0	1620.3	1603.7	1597.0	1597.9	1596.2	1595.4
12.5°	2040.8	1947.7	1807.3	1684.3	1614.5	1590.4	1591.2	1602.0	1614.5	1617.8	1618.6
15°	2118.9	1994.2	1783.2	1632.8	1577.9	1580.4	1602.0	1627.8	1651.1	1660.2	1661.9
17.5°	2203.6	2033.3	1739.1	1576.3	1548.0	1574.6	1614.5	1656.9	1690.9	1705.9	1710.0
20°	2298.3	2066.5	1676.8	1520.6	1519.8	1563.8	1622.0	1677.6	1720.9	1740.8	1744.1
22.5°	2398.9	2087.3	1600.4	1469.1	1490.7	1549.7	1616.2	1674.3	1720.0	1740.0	1744.1
25°	2500.3	2093.9	1516.4	1421.7	1460.8	1527.2	1587.9	1634.4	1677.6	1695.1	1698.4
27.5°	2595.0	2074.8	1436.7	1381.0	1433.4	1494.0	1534.7	1559.7	1589.6	1602.9	1605.4
30°	2691.4	2036.6	1369.4	1348.6	1402.6	1448.3	1466.6	1468.2	1479.9	1479.9	1481.5
32.5°	2788.6	1980.1	1310.4	1317.0	1364.4	1394.3	1396.8	1377.7	1363.6	1340.3	1339.5
35°	2900.8	1922.8	1262.2	1281.3	1319.5	1337.8	1330.3	1293.8	1259.7	1221.5	1219.8
37.5°	3004.6	1863.8	1221.5	1244.7	1268.8	1282.1	1264.7	1220.6	1192.4	1153.3	1147.5
40°	3090.2	1810.6	1182.4	1206.5	1218.1	1229.8	1201.5	1165.8	1169.9	1148.3	1147.5
42.5°	3140.1	1759.1	1145.8	1164.1	1171.6	1179.9	1155.0	1128.4	1150.8	1134.2	1135.0
45°	3176.6	1714.2	1112.6	1119.3	1137.5	1150.0	1126.7	1096.8	1101.8	1037.8	1022.9
47.5°	3218.2	1689.3	1081.0	1074.4	1106.8	1128.4	1092.7	1049.5	1019.5	956.4	950.6
50°	3262.2	1680.1	1047.8	1029.5	1068.6	1089.3	1047.8	993.8	954.7	920.7	917.3
52.5°	3277.2	1679.3	1006.3	975.5	1014.6	1043.6	1008.7	953.9	907.4	874.1	872.5
55°	3336.2	1703.4	953.1	901.6	938.1	997.9	972.2	893.2	855.9	840.9	839.2
57.5°	3405.1	1707.6	869.2	821.0	871.6	942.3	909.9	841.7	801.0	782.7	781.1
60°	3376.9	1605.4	779.4	759.5	815.1	889.9	860.0	801.0	753.7	736.2	734.5
62.5°	2573.4	1133.4	713.8	706.3	754.5	814.3	808.5	747.0	702.1	689.7	688.0
65°	1548.0	796.0	650.6	649.8	683.9	741.2	748.7	698.8	651.4	634.0	634.0
67.5°	765.3	609.1	579.2	575.0	596.6	637.3	668.9	628.2	588.3	571.7	569.2
70°	540.9	536.8	526.8	515.2	519.3	535.9	549.2	515.2	472.8	456.2	452.9
72.5°	467.8	468.6	462.0	452.9	449.5	437.9	426.3	401.3	375.6	358.1	359.8
75°	363.1	364.8	368.9	365.6	356.5	344.0	331.5	300.0	279.2	262.6	259.2
77.5°	211.9	220.2	233.5	230.2	231.8	214.4	209.4	178.6	159.5	147.9	145.4
80°	119.7	124.6	130.5	134.6	129.6	122.1	111.3	94.7	88.9	80.6	78.9
82.5°	72.3	77.3	79.8	83.1	81.4	71.5	63.2	52.3	47.4	43.2	42.4
85°	36.6	39.9	42.4	44.0	39.1	32.4	29.1	23.3	19.9	17.4	17.4
87.5°	9.1	10.0	11.6	10.0	9.1	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)