

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: P632769

Luminaire Tested: GWS-SA2D-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632769
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9601.2 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

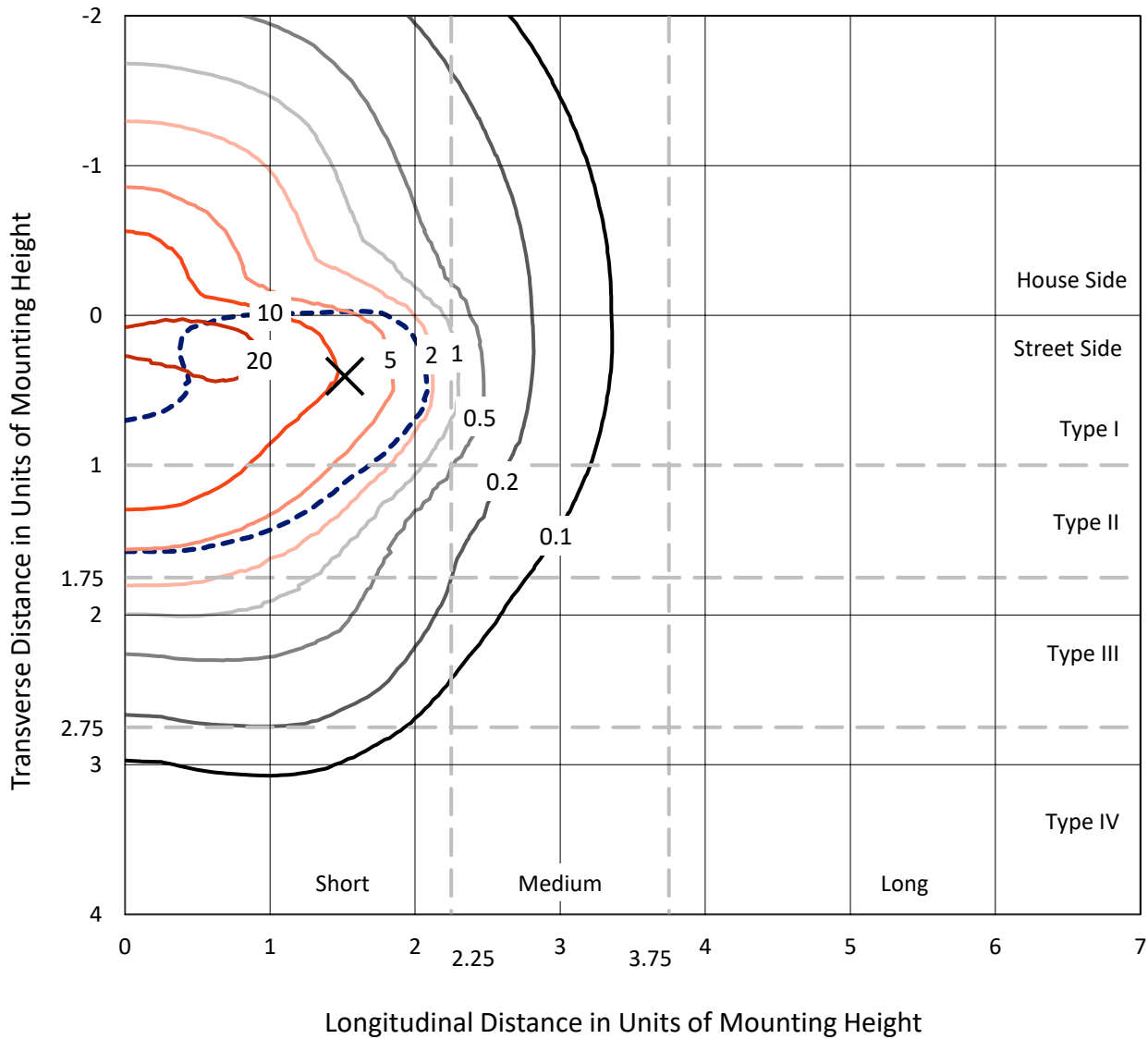
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

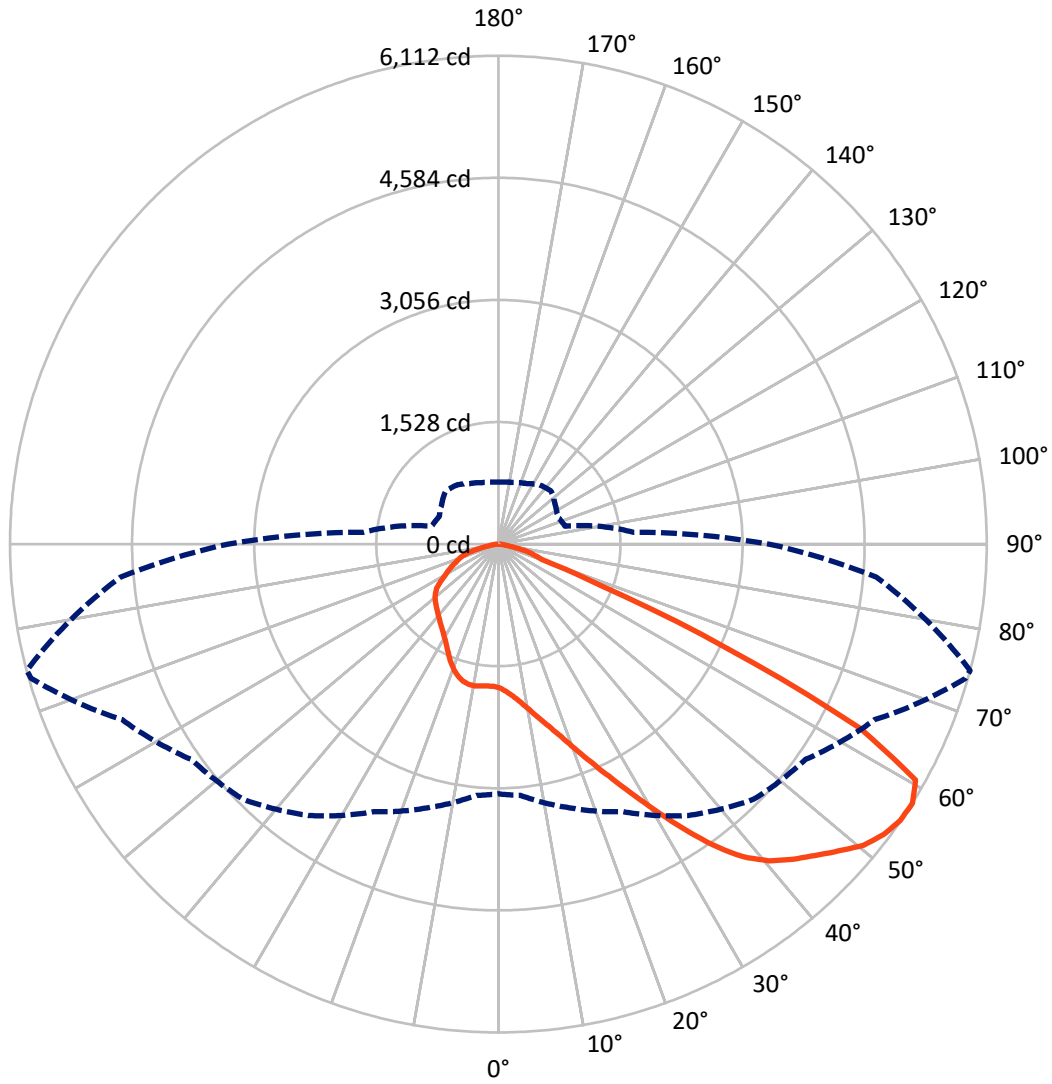
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.5 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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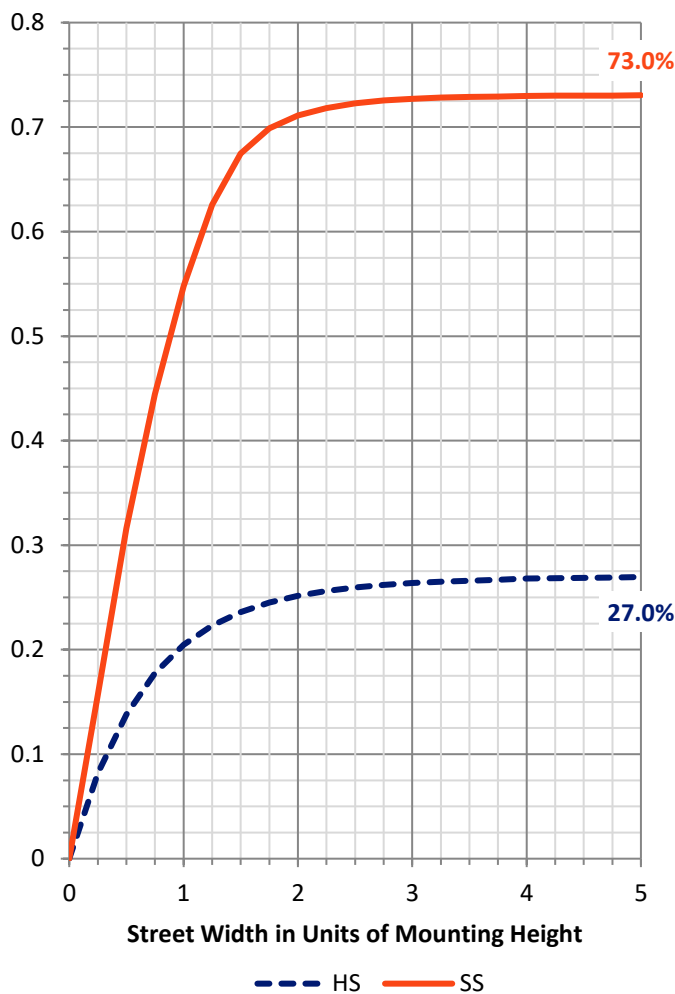
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.3	0.0	2597.3
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	7003.9	0.0	7003.9
	% Fixture	72.9	0.0	72.9
Total	Lumens	9601.2	0.0	9601.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.9
10°-20°	572.9	6.0
20°-30°	1016.0	10.6
30°-40°	1555.3	16.2
40°-50°	2165.6	22.6
50°-60°	2481.3	25.8
60°-70°	1275.0	13.3
70°-80°	321.0	3.3
80°-90°	34.3	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°	9601.2	100.0
0°-180°	9601.2	100.0

Coefficient of Utilization



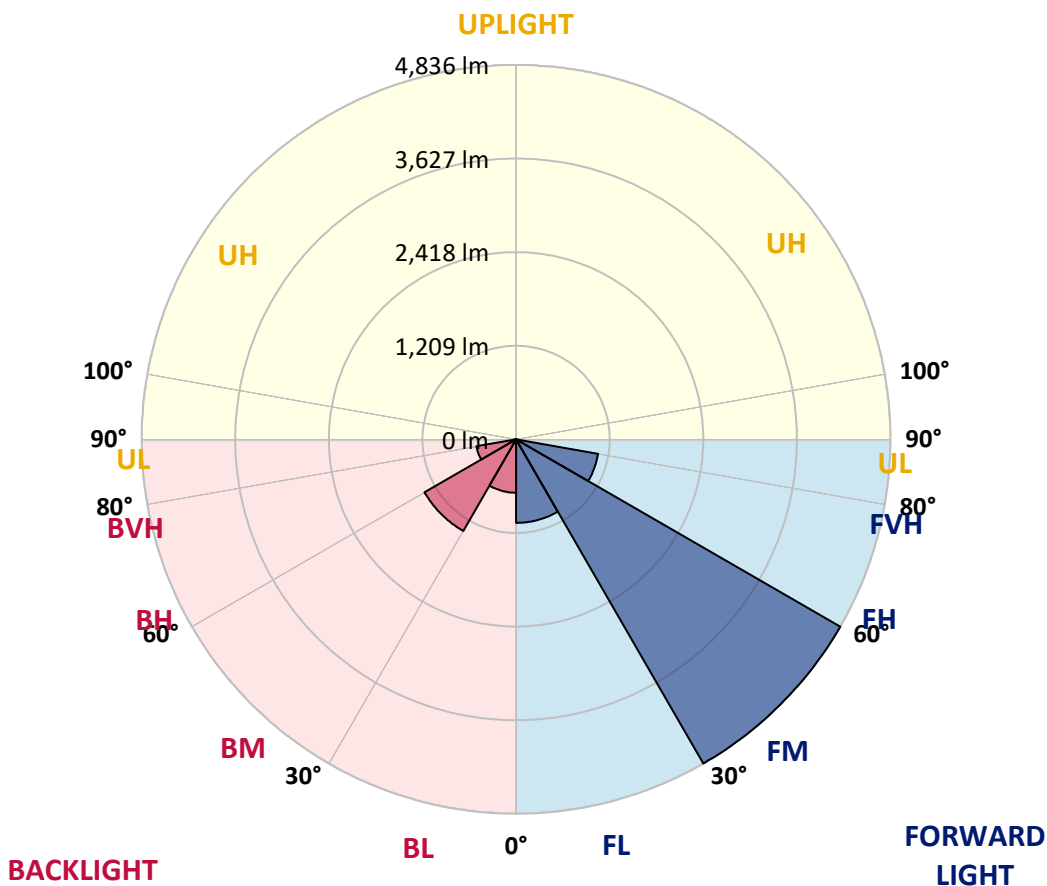
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1078.8	11.2			
FM (30°-60°)	4836.2	50.4			
FH (60°-80°)	1076.2	11.2			G1/1800
FVH (80°-90°)	12.7	0.1			G1/100
BL (0°-30°)	690.0	7.2	B2/1000		
BM (30°-60°)	1366.0	14.2	B2/2500		
BH (60°-80°)	519.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	21.6	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°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1931.8	1936.8	1931.8	1940.1	1923.6	1916.1	1898.0	1870.7	1849.3	1846.0	1822.0
5°	2082.1	2092.8	2086.2	2082.9	2060.6	2044.1	2016.8	1962.4	1917.8	1911.2	1864.1
7.5°	2178.7	2186.1	2186.1	2188.6	2180.3	2161.3	2132.4	2068.0	2005.3	1995.4	1924.4
10°	2210.9	2216.6	2227.4	2248.0	2264.5	2270.3	2251.3	2189.4	2112.6	2102.7	2003.6
12.5°	2218.3	2224.9	2241.4	2279.4	2324.8	2366.1	2369.4	2324.0	2238.1	2227.4	2095.3
15°	2232.3	2238.9	2261.2	2308.3	2375.1	2454.4	2503.1	2471.7	2376.8	2365.2	2199.3
17.5°	2230.7	2238.1	2271.1	2333.9	2423.9	2538.6	2632.7	2645.9	2547.7	2527.9	2317.4
20°	2226.5	2233.1	2268.6	2345.4	2456.9	2614.6	2784.6	2853.1	2747.5	2729.3	2455.2
22.5°	2259.6	2267.0	2294.2	2357.8	2474.2	2673.2	2925.0	3090.1	2984.4	2958.8	2613.7
25°	2333.9	2344.6	2361.1	2404.9	2505.6	2725.2	3068.6	3358.4	3250.2	3219.7	2786.3
27.5°	2448.6	2461.8	2484.9	2505.6	2575.8	2791.2	3211.4	3658.9	3550.7	3518.5	2968.7
30°	2589.0	2606.3	2636.0	2650.1	2697.9	2888.6	3366.6	3968.5	3905.7	3861.2	3174.3
32.5°	2783.0	2806.9	2835.0	2839.1	2868.0	3036.4	3520.2	4275.6	4274.8	4243.4	3407.9
35°	3035.6	3061.2	3067.0	3072.7	3086.8	3239.5	3705.9	4555.5	4663.6	4627.3	3662.2
37.5°	3311.3	3348.5	3357.6	3332.0	3351.8	3483.9	3914.8	4780.0	5002.1	4963.3	3908.2
40°	3606.1	3620.9	3645.7	3605.2	3630.0	3763.7	4119.6	4923.7	5254.7	5213.4	4102.2
42.5°	3817.4	3844.6	3881.8	3866.9	3881.0	4003.2	4263.2	4993.0	5434.7	5393.4	4241.7
45°	4046.9	4055.2	4079.1	4075.8	4084.1	4198.0	4366.4	5023.5	5595.7	5558.5	4360.6
47.5°	4246.7	4259.1	4274.8	4256.6	4238.4	4312.7	4450.6	5050.0	5781.4	5736.8	4485.3
50°	4439.0	4449.8	4468.8	4415.9	4348.2	4367.2	4491.9	5086.3	5955.6	5924.2	4583.5
52.5°	4474.5	4486.1	4575.3	4586.0	4499.3	4432.4	4564.5	5166.4	6058.0	6038.2	4619.0
55°	4027.9	4048.6	4226.1	4430.0	4643.8	4622.3	4680.9	5208.5	6098.4	6103.4	4682.6
57.5°	3126.4	3156.1	3415.4	3695.2	4145.1	4517.5	4695.8	5197.7	6084.4	6111.6	4747.8
60°	2050.7	2068.0	2375.1	2688.9	3155.3	3670.4	4202.9	5004.6	5959.7	5998.5	4731.3
62.5°	1238.3	1258.2	1505.0	1742.8	2017.7	2361.9	2850.7	4022.1	4995.5	5082.2	3789.3
65°	864.4	890.8	1107.1	1302.7	1397.7	1326.7	1443.9	2246.4	3112.4	3148.7	2315.7
67.5°	626.6	644.8	822.3	1055.1	1159.9	937.0	714.1	994.8	1355.6	1368.8	955.2
70°	410.3	430.9	591.9	803.3	946.9	759.5	534.1	538.3	570.5	577.1	554.8
72.5°	225.4	237.8	365.7	533.3	559.7	454.1	416.9	447.5	469.7	469.7	475.5
75°	116.4	127.1	149.4	175.8	212.2	248.5	300.5	345.9	369.9	371.5	369.0
77.5°	59.4	63.6	80.1	86.7	94.9	110.6	143.6	184.1	205.6	213.8	212.2
80°	28.1	29.7	33.8	39.6	48.7	61.9	77.6	92.5	105.7	107.3	116.4
82.5°	14.9	16.5	18.2	21.5	26.4	33.0	45.4	54.5	62.7	64.4	71.8
85°	5.8	6.6	7.4	8.3	11.6	14.0	19.0	25.6	31.4	31.4	37.2
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	4.1	5.8	5.8	9.9
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°	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1816.2	1792.3	1781.6	1764.2	1750.2	1734.5	1722.1	1713.0	1707.3	1704.0	1700.7
5°	1846.0	1809.6	1780.7	1746.1	1722.1	1699.0	1680.0	1666.8	1660.2	1655.3	1651.9
7.5°	1892.2	1843.5	1789.0	1735.3	1693.2	1656.1	1632.1	1618.1	1609.0	1605.7	1603.2
10°	1955.8	1888.1	1798.1	1713.0	1650.3	1609.8	1593.3	1586.7	1587.6	1585.9	1585.1
12.5°	2027.6	1935.1	1795.6	1673.4	1604.1	1580.1	1581.0	1591.7	1604.1	1607.4	1608.2
15°	2105.2	1981.3	1771.7	1622.2	1567.7	1570.2	1591.7	1617.3	1640.4	1649.5	1651.1
17.5°	2189.4	2020.2	1727.9	1566.1	1538.0	1564.4	1604.1	1646.2	1680.0	1694.9	1699.0
20°	2283.5	2053.2	1666.0	1510.8	1510.0	1553.7	1611.5	1666.8	1709.7	1729.6	1732.9
22.5°	2383.4	2073.8	1590.0	1459.6	1481.1	1539.7	1605.7	1663.5	1708.9	1728.7	1732.9
25°	2484.1	2080.4	1506.7	1412.5	1451.3	1517.4	1577.6	1623.9	1666.8	1684.1	1687.4
27.5°	2578.2	2061.4	1427.4	1372.1	1424.1	1484.4	1524.8	1549.6	1579.3	1592.5	1595.0
30°	2674.0	2023.5	1360.5	1339.9	1393.5	1439.0	1457.1	1458.8	1470.3	1470.3	1472.0
32.5°	2770.6	1967.3	1301.9	1308.5	1355.6	1385.3	1387.8	1368.8	1354.7	1331.6	1330.8
35°	2882.0	1910.4	1254.0	1273.0	1311.0	1329.2	1321.7	1285.4	1251.6	1213.6	1211.9
37.5°	2985.2	1851.7	1213.6	1236.7	1260.6	1273.8	1256.5	1212.8	1184.7	1145.9	1140.1
40°	3070.3	1798.9	1174.8	1198.7	1210.3	1221.8	1193.8	1158.3	1162.4	1140.9	1140.1
42.5°	3119.8	1747.7	1138.5	1156.6	1164.0	1172.3	1147.5	1121.1	1143.4	1126.9	1127.7
45°	3156.1	1703.1	1105.4	1112.0	1130.2	1142.6	1119.5	1089.7	1094.7	1031.1	1016.3
47.5°	3197.4	1678.4	1074.1	1067.5	1099.6	1121.1	1085.6	1042.7	1013.0	950.2	944.4
50°	3241.2	1669.3	1041.0	1022.9	1061.7	1082.3	1041.0	987.4	948.6	914.7	911.4
52.5°	3256.0	1668.5	999.8	969.2	1008.0	1036.9	1002.2	947.7	901.5	868.5	866.8
55°	3314.6	1692.4	946.9	895.7	932.1	991.5	965.9	887.5	850.3	835.5	833.8
57.5°	3383.2	1696.5	863.5	815.7	866.0	936.2	904.0	836.3	795.8	777.7	776.0
60°	3355.1	1595.0	774.4	754.6	809.9	884.2	854.5	795.8	748.8	731.4	729.8
62.5°	2556.8	1126.1	709.2	701.7	749.6	809.1	803.3	742.2	697.6	685.2	683.6
65°	1538.0	790.9	646.4	645.6	679.4	736.4	743.8	694.3	647.2	629.9	629.9
67.5°	760.3	605.1	575.4	571.3	592.8	633.2	664.6	624.1	584.5	568.0	565.5
70°	537.4	533.3	523.4	511.8	516.0	532.5	545.7	511.8	469.7	453.2	449.9
72.5°	464.8	465.6	459.0	449.9	446.6	435.1	423.5	398.7	373.2	355.8	357.5
75°	360.8	362.4	366.5	363.2	354.2	341.8	329.4	298.0	277.4	260.9	257.6
77.5°	210.5	218.8	232.0	228.7	230.3	213.0	208.0	177.5	158.5	147.0	144.5
80°	118.9	123.8	129.6	133.7	128.8	121.4	110.6	94.1	88.3	80.1	78.4
82.5°	71.8	76.8	79.3	82.6	80.9	71.0	62.7	52.0	47.1	42.9	42.1
85°	36.3	39.6	42.1	43.8	38.8	32.2	28.9	23.1	19.8	17.3	17.3
87.5°	9.1	9.9	11.6	9.9	9.1	4.1	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)