

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: P632890

Luminaire Tested: GWS-SA2D-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-750-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7491 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

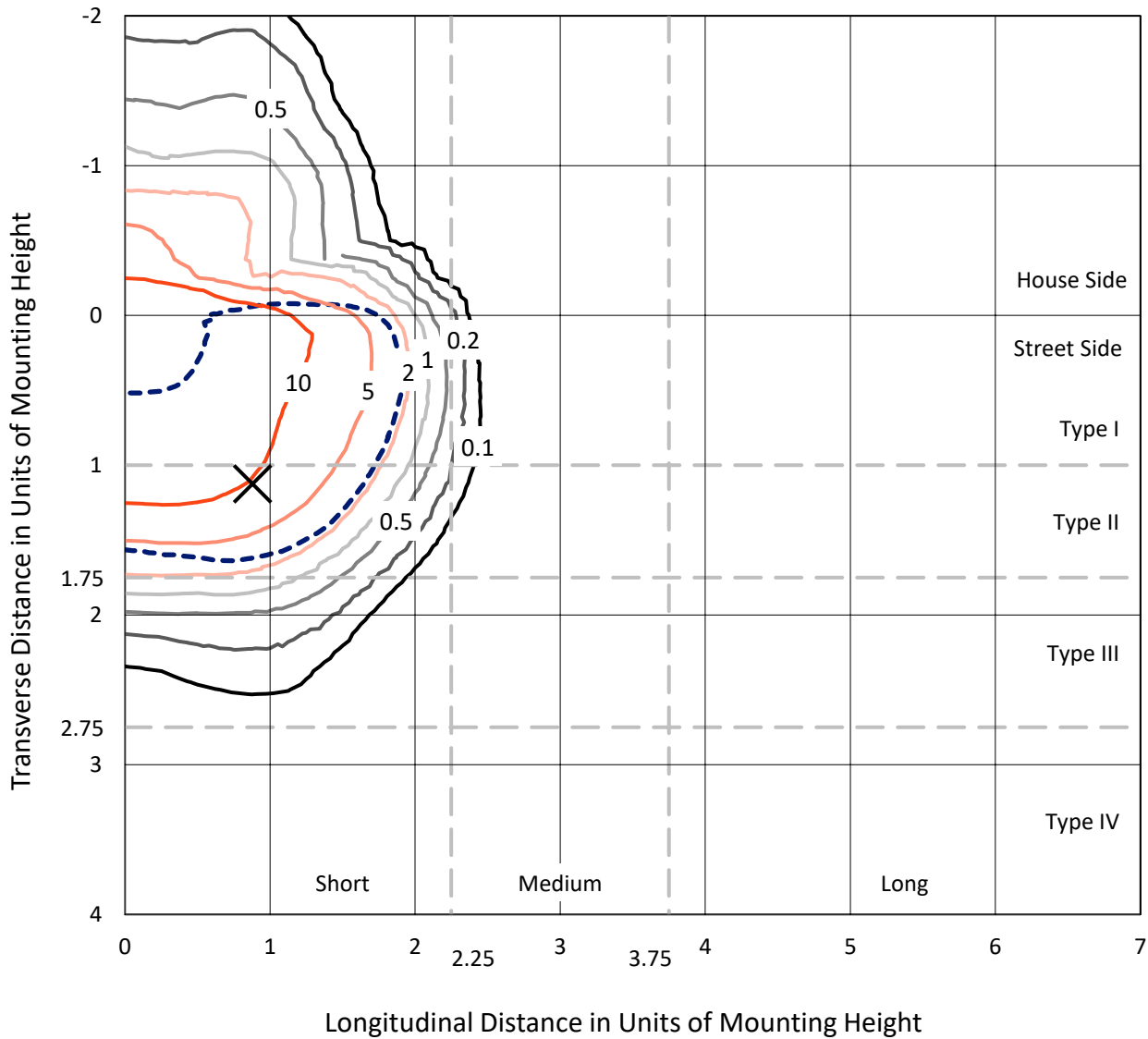
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

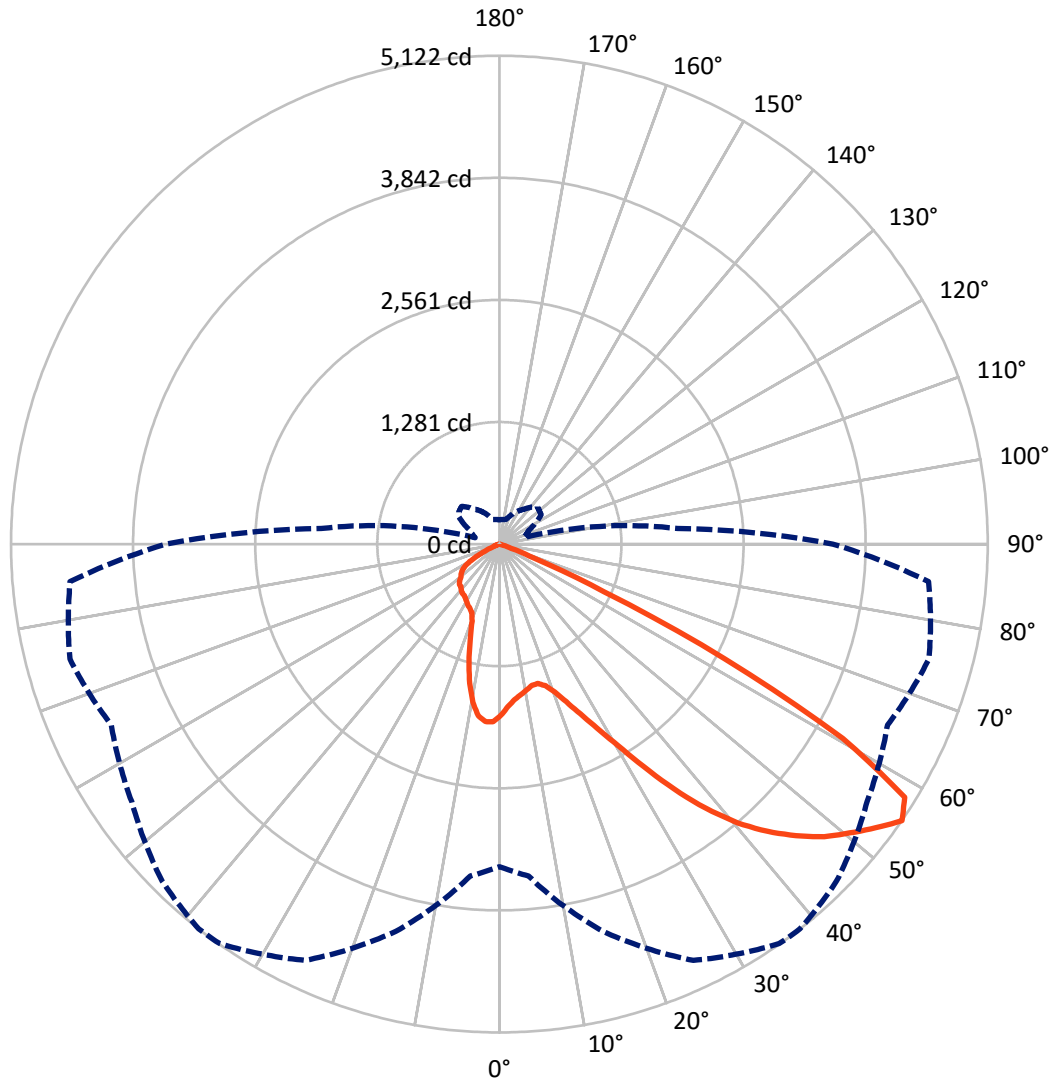
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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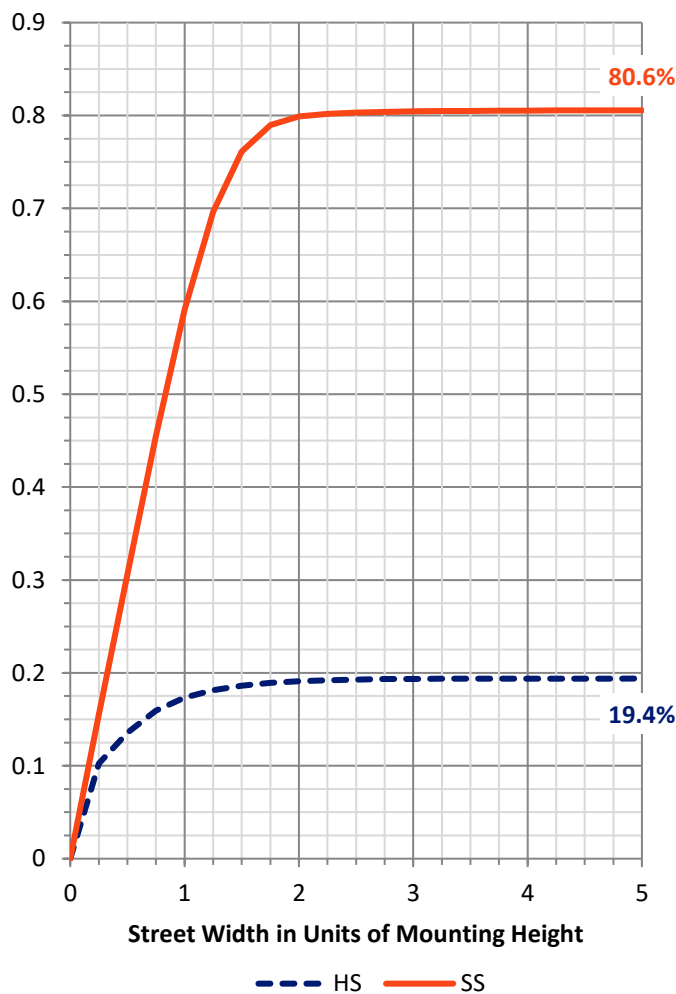
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1459.5	0.0	1459.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6031.5	0.0	6031.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	7491.0	0.0	7491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	2.2
10°-20°	447.2	6.0
20°-30°	767.4	10.2
30°-40°	1272.7	17.0
40°-50°	1871.0	25.0
50°-60°	2186.3	29.2
60°-70°	741.1	9.9
70°-80°	37.9	0.5
80°-90°	1.5	0.0
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°	7491.0	100.0
0°-180°	7491.0	100.0

Coefficient of Utilization



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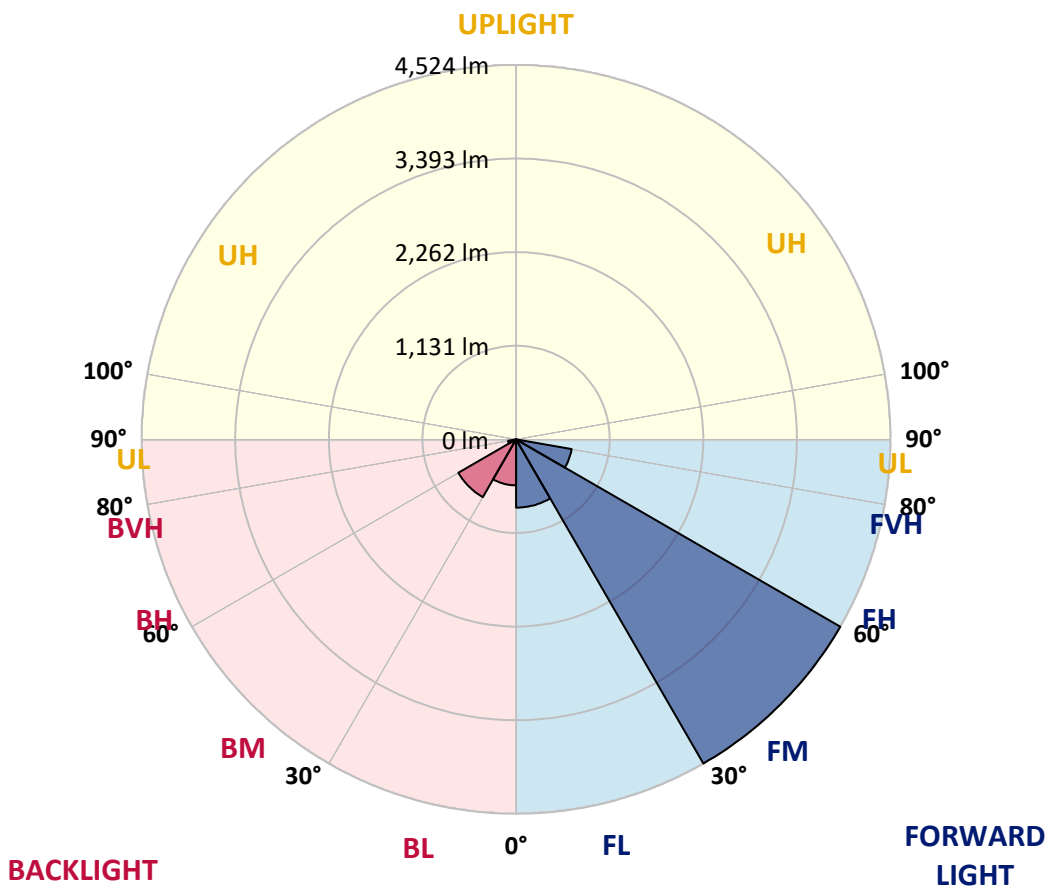
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.6	11.0			
FM (30°-60°)	4524.4	60.4			
FH (60°-80°)	681.8	9.1			G1/1800
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	556.0	7.4	B2/1000		
BM (30°-60°)	805.6	10.8	B1/1000		
BH (60°-80°)	97.2	1.3	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4
2.5°	1673.1	1669.7	1676.5	1690.2	1703.1	1707.3	1720.2	1738.2	1749.3	1775.8	1797.3
5°	1597.8	1596.0	1602.9	1614.9	1632.0	1638.0	1657.7	1687.7	1717.6	1763.9	1809.2
7.5°	1529.3	1528.4	1538.7	1565.2	1590.0	1597.8	1621.7	1658.5	1698.8	1769.9	1836.6
10°	1439.3	1440.2	1459.9	1497.6	1543.0	1558.4	1596.9	1650.0	1702.2	1793.8	1886.3
12.5°	1410.2	1411.9	1422.2	1451.3	1501.0	1520.7	1574.6	1655.1	1721.9	1828.1	1950.5
15°	1481.3	1481.3	1472.7	1476.2	1498.4	1516.4	1572.9	1672.2	1755.3	1869.2	2013.9
17.5°	1619.2	1614.0	1592.6	1563.5	1555.8	1561.8	1607.2	1709.1	1802.4	1917.1	2085.8
20°	1805.8	1807.5	1765.6	1704.8	1656.0	1655.1	1682.5	1774.1	1870.0	1974.5	2163.7
22.5°	2031.9	2025.0	1969.4	1886.3	1801.5	1794.7	1805.8	1873.5	1967.6	2065.3	2259.6
25°	2293.9	2290.5	2211.7	2100.4	1988.2	1971.9	1971.9	2038.7	2107.2	2194.6	2374.4
27.5°	2567.9	2567.9	2491.7	2363.2	2214.2	2185.1	2180.9	2259.6	2305.0	2322.1	2471.1
30°	2849.6	2846.2	2770.8	2638.9	2479.7	2449.7	2437.7	2496.0	2528.5	2477.1	2591.8
32.5°	3135.6	3141.6	3065.4	2942.9	2800.8	2781.1	2744.3	2744.3	2770.8	2698.9	2781.9
35°	3443.0	3441.2	3381.3	3298.3	3176.7	3154.4	3093.6	2998.6	3038.8	3007.1	3044.8
37.5°	3714.4	3727.2	3698.1	3636.5	3538.0	3515.7	3415.6	3243.5	3274.3	3323.9	3357.3
40°	3990.1	4000.4	4029.5	4009.8	3885.6	3844.5	3666.4	3383.9	3418.1	3588.5	3684.4
42.5°	4260.7	4265.8	4324.9	4357.4	4191.3	4119.4	3856.5	3469.5	3505.5	3795.7	3963.6
45°	4432.8	4443.9	4541.5	4640.8	4461.0	4362.6	4021.8	3579.1	3594.5	3939.6	4169.9
47.5°	4425.9	4451.6	4634.8	4815.5	4693.1	4586.9	4220.4	3754.6	3728.9	4074.9	4306.0
50°	4288.1	4318.9	4581.8	4868.6	4860.0	4761.6	4441.3	4008.9	3928.4	4194.7	4323.2
52.5°	4002.1	4091.1	4488.4	4875.5	4994.5	4944.8	4714.5	4351.4	4198.2	4366.8	4350.6
55°	3383.9	3493.5	4205.0	4817.2	5116.1	5122.0	5001.3	4708.5	4491.0	4663.1	4519.3
57.5°	2568.7	2656.1	3236.6	4288.1	4914.8	5013.3	5112.6	4896.9	4671.7	4865.2	4558.6
60°	1548.1	1649.1	2026.7	3146.7	3969.5	4137.4	4527.0	4485.0	4213.6	4296.6	3738.4
62.5°	627.6	680.7	935.9	1733.9	2498.5	2655.2	3028.5	3091.9	3025.1	2940.3	2267.3
65°	229.5	250.9	375.0	716.7	1149.1	1206.4	1403.4	1515.6	1608.0	1369.1	843.4
67.5°	142.1	155.8	244.0	368.2	417.8	388.7	395.6	471.8	450.4	278.3	150.7
70°	105.3	116.4	190.9	255.2	168.7	130.1	88.2	94.2	84.8	74.5	73.6
72.5°	72.8	83.1	143.0	150.7	65.1	46.2	32.5	45.4	51.4	50.5	52.2
75°	47.9	55.7	89.9	59.1	16.3	12.8	11.1	24.0	30.8	30.8	31.7
77.5°	28.3	32.5	31.7	12.0	3.4	3.4	2.6	4.3	6.8	7.7	9.4
80°	3.4	2.6	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6
82.5°	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6
85°	0.0	0.0	0.9	0.9	1.7	1.7	1.7	1.7	1.7	2.6	2.6
87.5°	0.0	0.0	0.9	0.9	1.7	1.7	1.7	1.7	1.7	2.6	2.6
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°	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4	1796.4
2.5°	1813.5	1807.5	1832.4	1850.3	1864.9	1871.7	1862.3	1861.5	1861.5	1842.6	1837.5
5°	1834.9	1837.5	1872.6	1888.0	1890.6	1882.0	1860.6	1846.1	1837.5	1817.8	1806.7
7.5°	1876.0	1884.6	1918.0	1915.4	1892.3	1852.9	1796.4	1752.7	1724.5	1693.6	1674.8
10°	1935.1	1951.4	1971.9	1936.0	1862.3	1762.1	1645.7	1562.6	1513.0	1477.9	1456.5
12.5°	2007.0	2023.3	2016.5	1931.7	1778.4	1599.5	1449.6	1329.7	1272.4	1240.7	1218.4
15°	2079.8	2090.1	2045.6	1880.3	1630.3	1389.7	1222.7	1103.7	1033.5	1007.8	989.0
17.5°	2154.3	2151.7	2050.7	1779.3	1432.5	1153.4	989.0	907.6	887.9	883.6	881.9
20°	2232.2	2209.1	2030.2	1634.6	1194.5	919.6	826.3	831.4	867.4	884.5	887.9
22.5°	2321.3	2263.1	1978.8	1438.5	951.3	766.3	775.8	826.3	875.1	898.2	901.6
25°	2416.3	2312.7	1893.2	1186.8	750.1	704.7	760.3	818.6	870.8	899.1	902.5
27.5°	2478.8	2324.7	1752.7	933.3	643.9	680.7	739.8	795.5	849.4	880.2	884.5
30°	2546.5	2319.6	1561.8	719.2	607.9	660.2	711.5	762.1	811.7	846.0	849.4
32.5°	2645.8	2316.1	1328.9	584.0	593.4	643.9	681.6	723.5	757.8	777.5	774.9
35°	2775.9	2311.9	1057.5	526.6	584.8	631.1	661.0	680.7	643.0	631.1	633.6
37.5°	2942.9	2322.1	828.8	502.6	582.2	627.6	653.3	596.8	538.6	516.3	512.9
40°	3127.9	2348.7	631.9	493.2	590.8	636.2	624.2	530.9	458.9	415.3	405.9
42.5°	3313.7	2377.8	500.0	489.8	605.4	660.2	576.3	482.9	375.0	350.2	346.8
45°	3451.5	2372.7	432.4	483.8	618.2	673.9	563.4	414.4	334.8	323.7	324.5
47.5°	3520.9	2316.1	395.6	470.1	623.3	660.2	531.7	386.2	307.4	319.4	329.7
50°	3484.1	2169.7	361.3	443.5	612.2	642.2	481.2	364.8	293.7	343.4	366.5
52.5°	3439.5	1989.9	323.7	402.4	585.7	617.4	461.5	358.8	285.1	331.4	348.5
55°	3498.6	1876.0	262.0	339.1	533.4	559.1	446.1	357.9	265.4	257.7	255.2
57.5°	3415.6	1649.1	187.5	244.0	409.3	442.7	435.0	351.9	235.5	234.6	238.0
60°	2639.8	1006.1	128.4	155.0	250.9	282.6	394.7	336.5	202.9	186.7	187.5
62.5°	1500.1	428.1	88.2	95.9	128.4	152.4	301.4	305.7	187.5	178.1	187.5
65°	522.3	153.3	68.5	64.2	71.1	81.3	173.0	236.3	170.4	154.1	155.8
67.5°	107.9	76.2	60.8	53.1	53.1	53.1	88.2	147.3	140.4	122.4	124.2
70°	68.5	65.1	53.1	45.4	43.7	40.2	50.5	81.3	96.8	89.0	89.9
72.5°	50.5	49.7	42.0	36.8	32.5	29.1	31.7	40.2	49.7	51.4	52.2
75°	30.8	31.7	27.4	23.1	20.5	18.0	18.8	18.8	18.8	17.1	18.8
77.5°	9.4	10.3	8.6	6.8	6.0	6.0	6.0	5.1	4.3	2.6	2.6
80°	2.6	2.6	2.6	2.6	2.6	1.7	1.7	0.9	0.9	0.0	0.0
82.5°	2.6	2.6	2.6	2.6	1.7	1.7	0.9	0.9	0.0	0.0	0.0
85°	2.6	2.6	2.6	2.6	1.7	1.7	0.9	0.9	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	1.7	1.7	0.9	0.9	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)