

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: P633759

Luminaire Tested: GWS-SA2F-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633759
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-SA2F-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: 13339.8 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

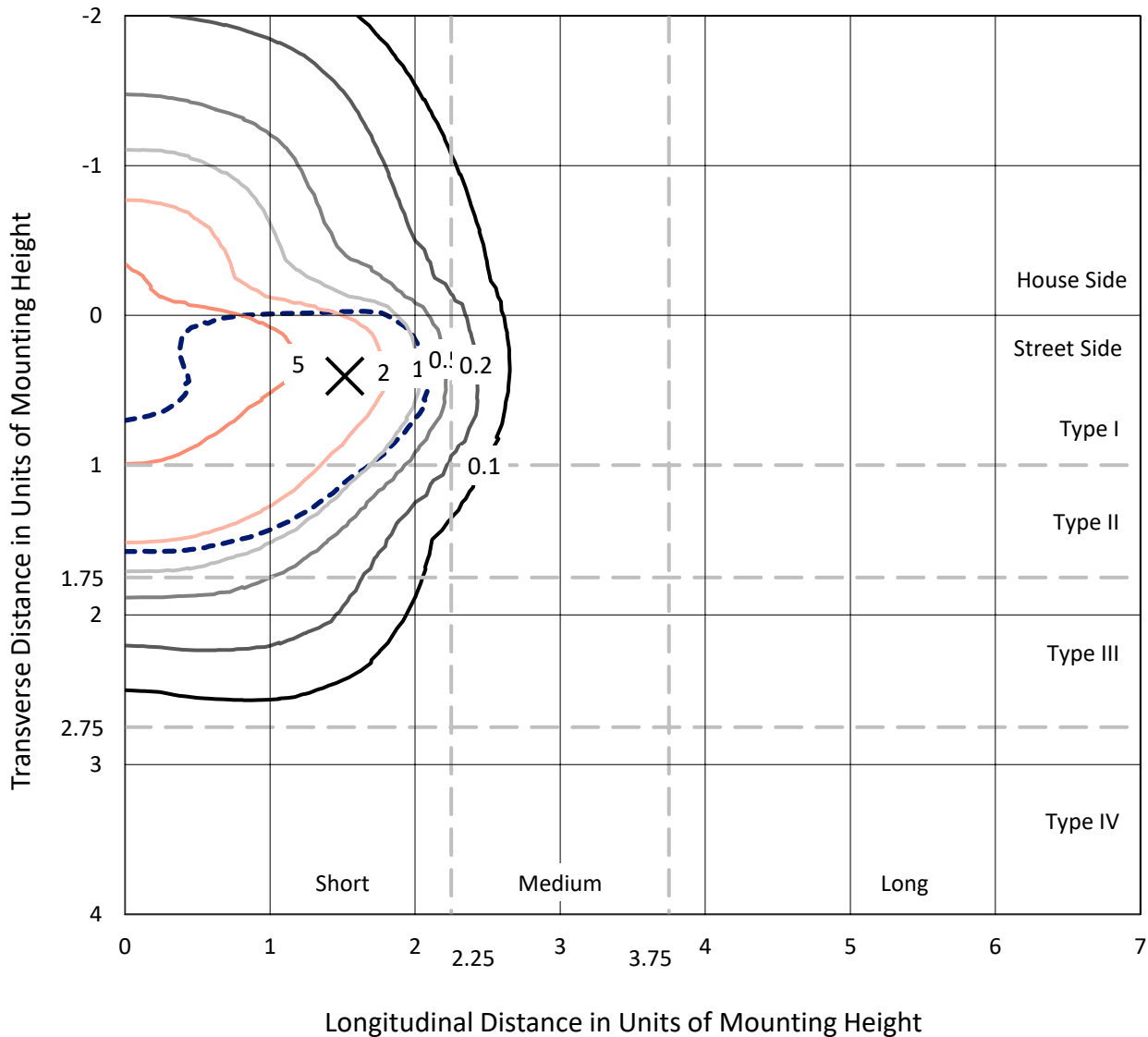
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

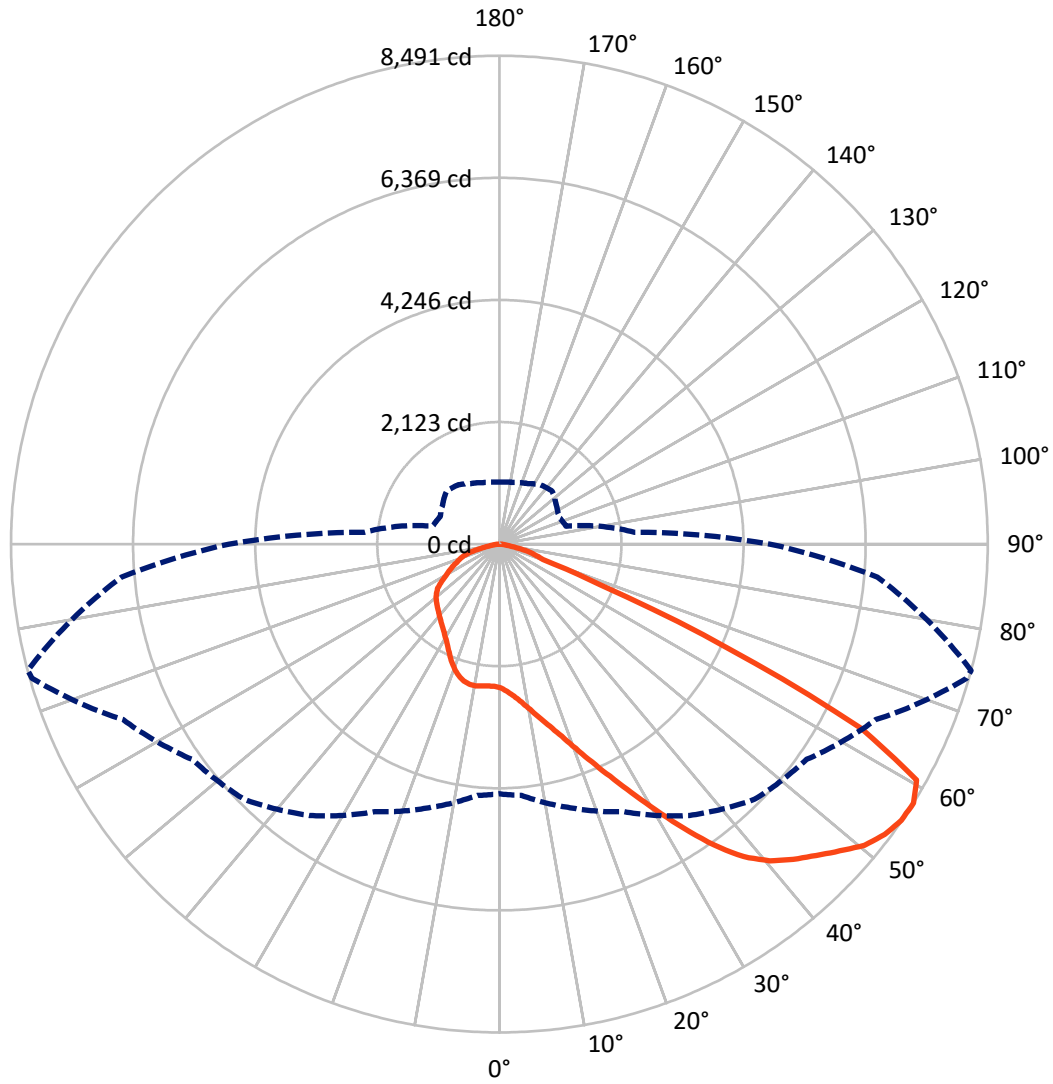
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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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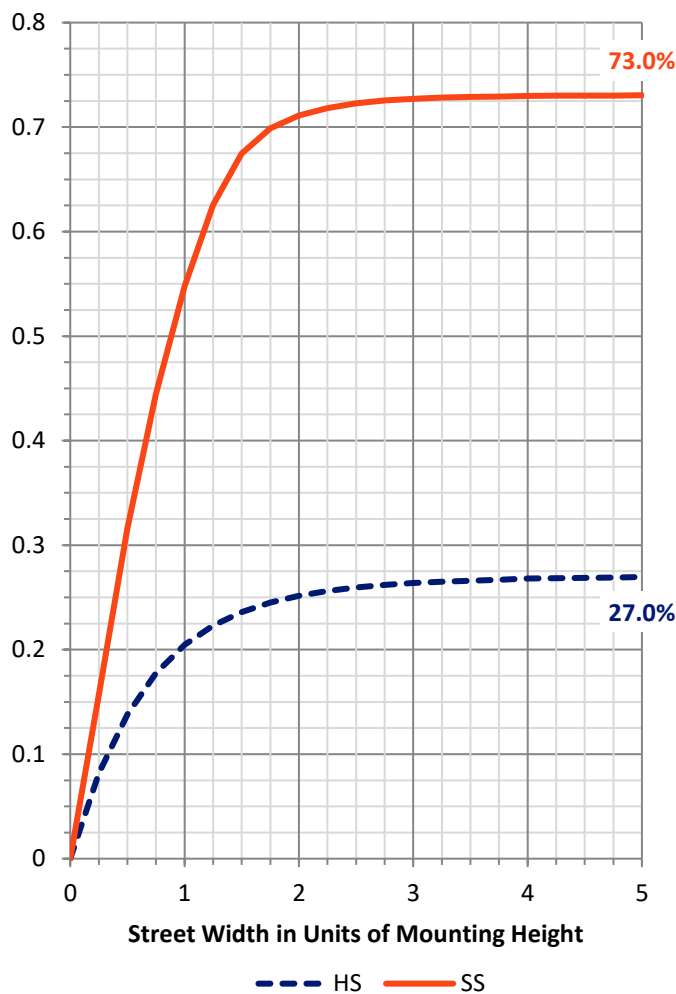
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3608.7	0.0	3608.7
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	9731.1	0.0	9731.1
	% Fixture	72.9	0.0	72.9
Total	Lumens	13339.8	0.0	13339.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.9
10°-20°	795.9	6.0
20°-30°	1411.6	10.6
30°-40°	2160.9	16.2
40°-50°	3008.8	22.6
50°-60°	3447.5	25.8
60°-70°	1771.4	13.3
70°-80°	446.0	3.3
80°-90°	47.7	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°	13339.8	100.0
0°-180°	13339.8	100.0

Coefficient of Utilization



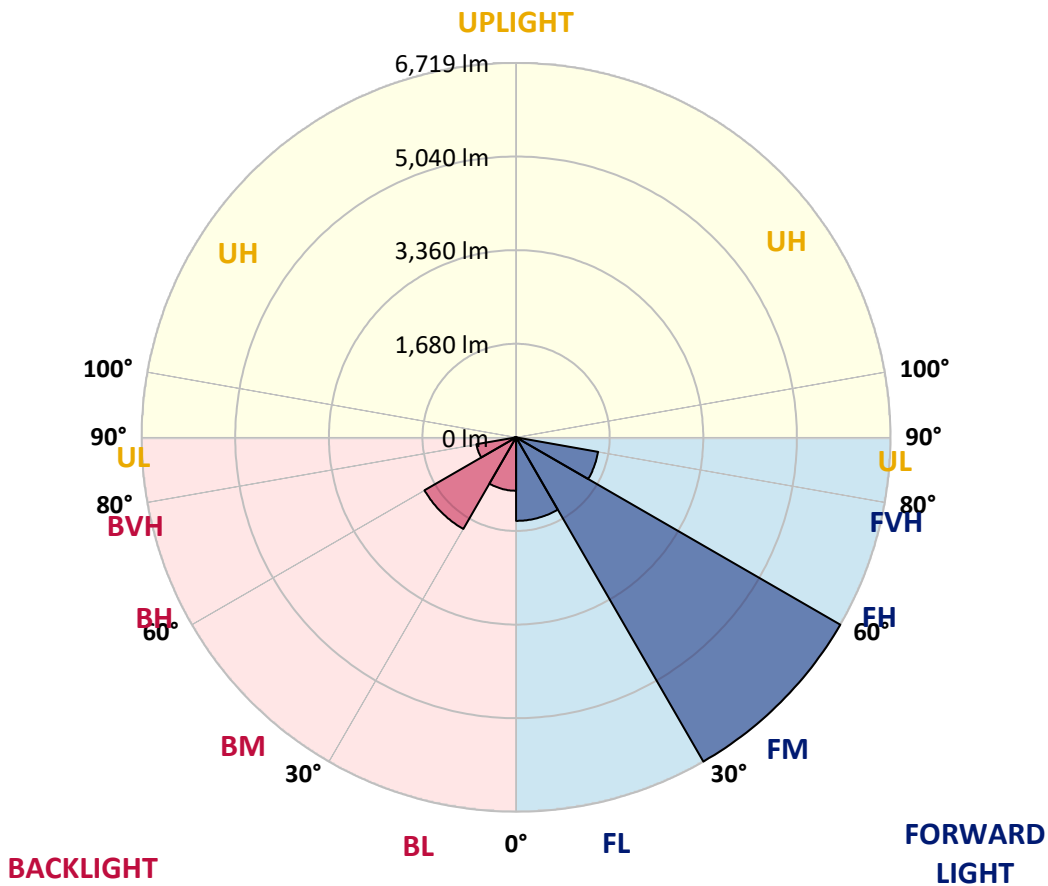
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1498.8	11.2			
FM (30°-60°)	6719.4	50.4			
FH (60°-80°)	1495.3	11.2			G1/1800
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	958.7	7.2	B2/1000		
BM (30°-60°)	1897.8	14.2	B2/2500		
BH (60°-80°)	722.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	30.0	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°	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2
2.5°	2684.0	2690.9	2684.0	2695.5	2672.6	2662.2	2637.0	2599.2	2569.3	2564.8	2531.5
5°	2892.8	2907.7	2898.5	2893.9	2863.0	2840.0	2802.2	2726.5	2664.5	2655.4	2590.0
7.5°	3027.0	3037.3	3037.3	3040.8	3029.3	3002.9	2962.8	2873.3	2786.1	2772.4	2673.7
10°	3071.7	3079.8	3094.7	3123.4	3146.3	3154.3	3127.9	3041.9	2935.2	2921.5	2783.8
12.5°	3082.1	3091.2	3114.2	3166.9	3230.0	3287.4	3292.0	3228.9	3109.6	3094.7	2911.2
15°	3101.6	3110.7	3141.7	3207.1	3300.0	3410.1	3477.8	3434.2	3302.3	3286.2	3055.7
17.5°	3099.3	3109.6	3155.5	3242.6	3367.7	3527.1	3657.9	3676.2	3539.7	3512.2	3219.7
20°	3093.5	3102.7	3152.0	3258.7	3413.6	3632.6	3868.9	3964.1	3817.3	3792.1	3411.3
22.5°	3139.4	3149.7	3187.6	3275.9	3437.6	3714.1	4063.9	4293.3	4146.5	4110.9	3631.5
25°	3242.6	3257.6	3280.5	3341.3	3481.2	3786.3	4263.5	4666.1	4515.8	4473.4	3871.2
27.5°	3402.1	3420.4	3452.6	3481.2	3578.7	3878.1	4461.9	5083.6	4933.4	4888.6	4124.7
30°	3597.1	3621.2	3662.5	3682.0	3748.5	4013.4	4677.6	5513.8	5426.6	5364.6	4410.3
32.5°	3866.6	3899.9	3938.9	3944.6	3984.8	4218.8	4890.9	5940.5	5939.3	5895.7	4734.9
35°	4217.6	4253.2	4261.2	4269.2	4288.7	4500.9	5149.0	6329.3	6479.6	6429.1	5088.2
37.5°	4600.7	4652.3	4665.0	4629.4	4656.9	4840.5	5439.2	6641.3	6949.8	6895.9	5430.0
40°	5010.2	5030.9	5065.3	5009.1	5043.5	5229.3	5723.7	6840.9	7300.8	7243.5	5699.6
42.5°	5303.9	5341.7	5393.3	5372.7	5392.2	5561.9	5923.2	6937.2	7550.9	7493.5	5893.4
45°	5622.7	5634.2	5667.5	5662.9	5674.3	5832.6	6066.6	6979.7	7774.5	7722.9	6058.6
47.5°	5900.3	5917.5	5939.3	5914.1	5888.8	5992.1	6183.6	7016.4	8032.6	7970.7	6231.8
50°	6167.6	6182.5	6208.9	6135.4	6041.4	6067.8	6241.0	7066.8	8274.7	8231.1	6368.3
52.5°	6216.9	6232.9	6356.8	6371.7	6251.3	6158.4	6341.9	7178.1	8416.9	8389.4	6417.6
55°	5596.3	5625.0	5871.6	6154.9	6452.0	6422.2	6503.6	7236.6	8473.1	8480.0	6505.9
57.5°	4343.8	4385.1	4745.2	5134.1	5759.2	6276.5	6524.3	7221.7	8453.6	8491.4	6596.6
60°	2849.2	2873.3	3300.0	3735.9	4383.9	5099.7	5839.5	6953.3	8280.4	8334.3	6573.6
62.5°	1720.5	1748.1	2091.0	2421.4	2803.3	3281.6	3960.7	5588.3	6940.7	7061.1	5264.9
65°	1200.9	1237.6	1538.2	1810.0	1941.9	1843.3	2006.1	3121.1	4324.3	4374.8	3217.4
67.5°	870.6	895.8	1142.4	1465.9	1611.6	1301.9	992.2	1382.2	1883.4	1901.8	1327.1
70°	570.1	598.7	822.4	1116.1	1315.6	1055.3	742.1	747.9	792.6	801.8	770.8
72.5°	313.1	330.3	508.1	741.0	777.7	630.9	579.2	621.7	652.7	652.7	660.7
75°	161.7	176.6	207.6	244.3	294.8	345.3	417.5	480.6	513.9	516.2	512.7
77.5°	82.6	88.3	111.3	120.4	131.9	153.7	199.6	255.8	285.6	297.1	294.8
80°	39.0	41.3	47.0	55.1	67.7	86.0	107.8	128.5	146.8	149.1	161.7
82.5°	20.6	22.9	25.2	29.8	36.7	45.9	63.1	75.7	87.2	89.5	99.8
85°	8.0	9.2	10.3	11.5	16.1	19.5	26.4	35.6	43.6	43.6	51.6
87.5°	0.0	0.0	0.0	0.0	1.1	2.3	4.6	5.7	8.0	8.0	13.8
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°	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2	2498.2
2.5°	2523.5	2490.2	2475.3	2451.2	2431.7	2409.9	2392.7	2380.1	2372.1	2367.5	2362.9
5°	2564.8	2514.3	2474.1	2426.0	2392.7	2360.6	2334.2	2315.8	2306.7	2299.8	2295.2
7.5°	2629.0	2561.3	2485.6	2411.1	2352.6	2300.9	2267.7	2248.2	2235.6	2231.0	2227.5
10°	2717.3	2623.3	2498.2	2380.1	2292.9	2236.7	2213.8	2204.6	2205.7	2203.4	2202.3
12.5°	2817.1	2688.6	2494.8	2325.0	2228.7	2195.4	2196.6	2211.5	2228.7	2233.3	2234.4
15°	2924.9	2752.9	2461.5	2253.9	2178.2	2181.6	2211.5	2247.0	2279.1	2291.8	2294.1
17.5°	3041.9	2806.8	2400.7	2175.9	2136.9	2173.6	2228.7	2287.2	2334.2	2354.8	2360.6
20°	3172.7	2852.7	2314.7	2099.1	2097.9	2158.7	2239.0	2315.8	2375.5	2403.0	2407.6
22.5°	3311.5	2881.3	2209.2	2027.9	2057.8	2139.2	2231.0	2311.3	2374.3	2401.9	2407.6
25°	3451.4	2890.5	2093.3	1962.6	2016.5	2108.2	2192.0	2256.2	2315.8	2339.9	2344.5
27.5°	3582.2	2864.1	1983.2	1906.4	1978.6	2062.4	2118.6	2153.0	2194.3	2212.6	2216.1
30°	3715.2	2811.4	1890.3	1861.6	1936.2	1999.3	2024.5	2026.8	2042.9	2042.9	2045.1
32.5°	3849.4	2733.4	1808.9	1818.0	1883.4	1924.7	1928.2	1901.8	1882.3	1850.2	1849.0
35°	4004.3	2654.2	1742.3	1768.7	1821.5	1846.7	1836.4	1785.9	1738.9	1686.1	1683.8
37.5°	4147.6	2572.8	1686.1	1718.2	1751.5	1769.9	1745.8	1685.0	1646.0	1592.1	1584.0
40°	4265.8	2499.4	1632.2	1665.5	1681.5	1697.6	1658.6	1609.3	1615.0	1585.2	1584.0
42.5°	4334.6	2428.3	1581.7	1607.0	1617.3	1628.8	1594.4	1557.7	1588.6	1565.7	1566.8
45°	4385.1	2366.3	1535.9	1545.0	1570.3	1587.5	1555.4	1514.1	1521.0	1432.6	1412.0
47.5°	4442.4	2331.9	1492.3	1483.1	1527.8	1557.7	1508.3	1448.7	1407.4	1320.2	1312.2
50°	4503.2	2319.3	1446.4	1421.2	1475.1	1503.8	1446.4	1371.8	1317.9	1270.9	1266.3
52.5°	4523.9	2318.1	1389.0	1346.6	1400.5	1440.7	1392.5	1316.8	1252.6	1206.7	1204.4
55°	4605.3	2351.4	1315.6	1244.5	1295.0	1377.6	1342.0	1233.1	1181.4	1160.8	1158.5
57.5°	4700.5	2357.1	1199.8	1133.3	1203.2	1300.7	1256.0	1161.9	1105.7	1080.5	1078.2
60°	4661.5	2216.1	1075.9	1048.4	1125.2	1228.5	1187.2	1105.7	1040.4	1016.3	1014.0
62.5°	3552.3	1564.5	985.3	975.0	1041.5	1124.1	1116.1	1031.2	969.2	952.0	949.7
65°	2136.9	1098.9	898.1	897.0	944.0	1023.1	1033.5	964.6	899.3	875.2	875.2
67.5°	1056.4	840.8	799.5	793.7	823.6	879.8	923.4	867.2	812.1	789.2	785.7
70°	746.7	741.0	727.2	711.2	716.9	739.8	758.2	711.2	652.7	629.7	625.1
72.5°	645.8	646.9	637.7	625.1	620.5	604.5	588.4	554.0	518.5	494.4	496.7
75°	501.3	503.5	509.3	504.7	492.1	474.9	457.7	414.1	385.4	362.5	357.9
77.5°	292.5	304.0	322.3	317.7	320.0	295.9	289.1	246.6	220.2	204.2	200.7
80°	165.2	172.1	180.1	185.8	178.9	168.6	153.7	130.8	122.7	111.3	109.0
82.5°	99.8	106.7	110.1	114.7	112.4	98.6	87.2	72.3	65.4	59.6	58.5
85°	50.5	55.1	58.5	60.8	53.9	44.7	40.1	32.1	27.5	24.1	24.1
87.5°	12.6	13.8	16.1	13.8	12.6	5.7	4.6	1.1	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)