

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: P640720

Luminaire Tested: GWS-SA5E-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38228.2 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

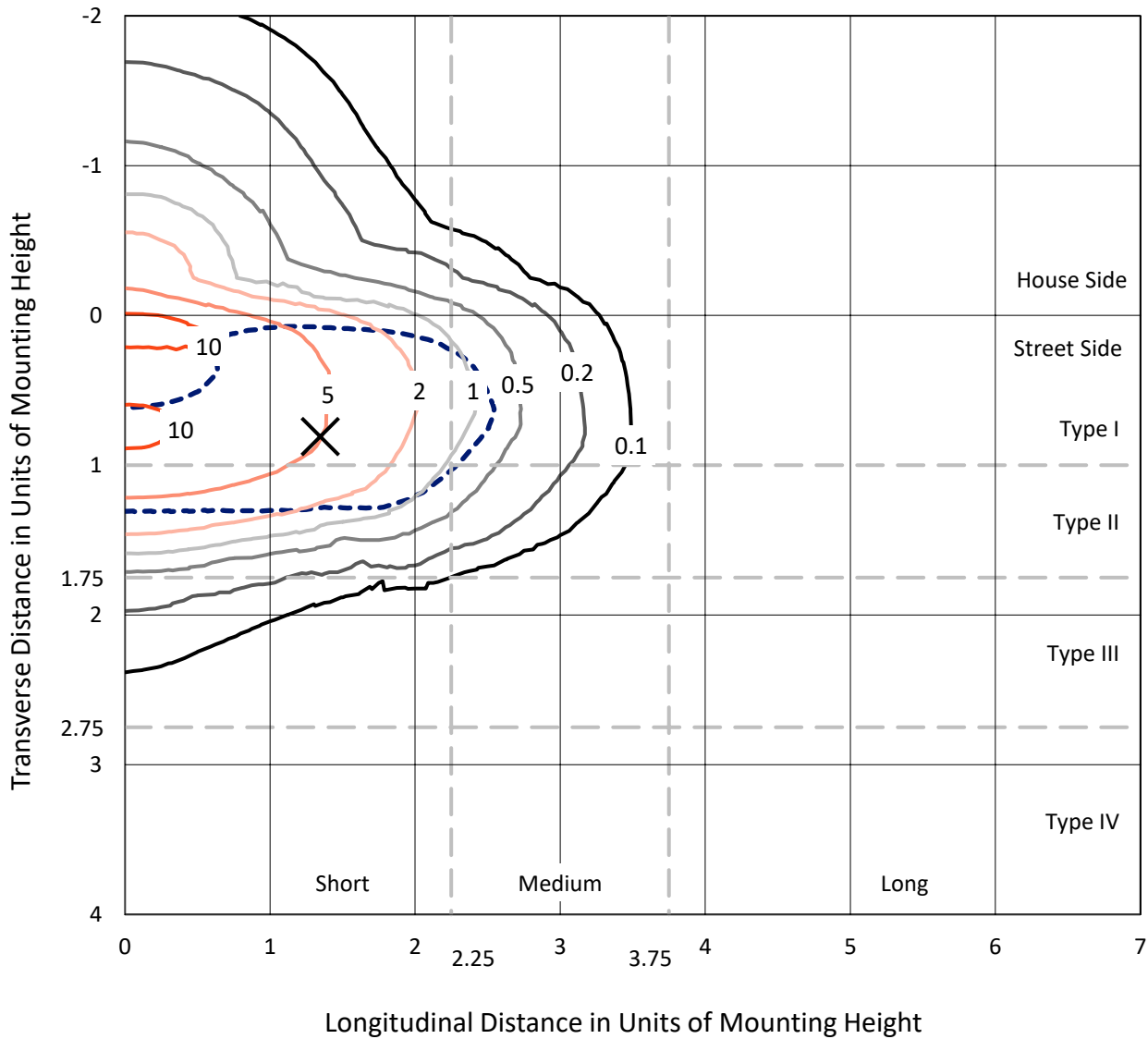
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640720
 CATALOG NUMBER: GWS-SA5E-740-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

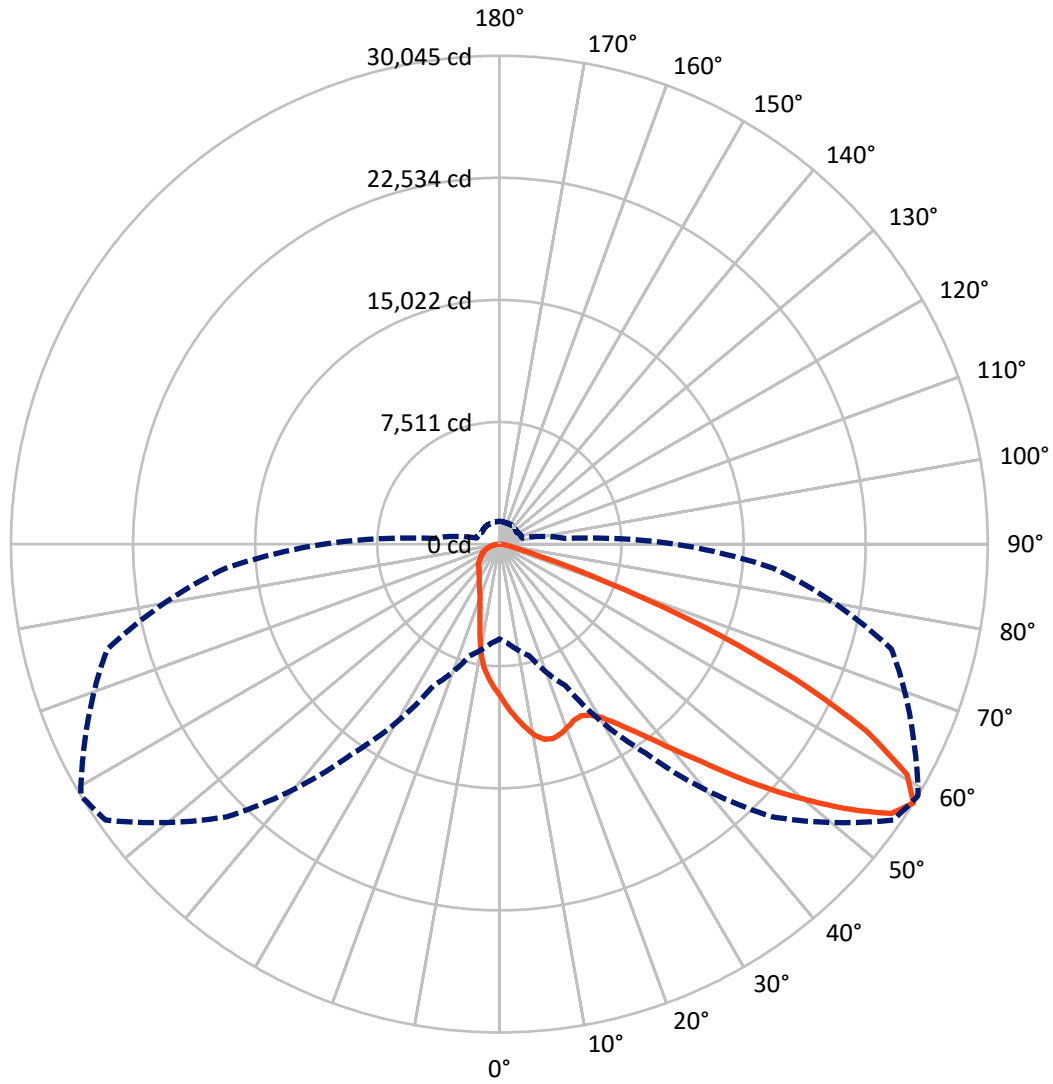
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

REPORT NUMBER: P640720
CATALOG NUMBER: GWS-SA5E-740-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640720

CATALOG NUMBER: GWS-SA5E-740-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5932.8	0.0	5932.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	32295.4	0.0	32295.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	38228.2	0.0	38228.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.4	2.3
10°-20°	2208.0	5.8
20°-30°	3579.2	9.4
30°-40°	5757.6	15.1
40°-50°	8941.0	23.4
50°-60°	9630.6	25.2
60°-70°	5589.2	14.6
70°-80°	1459.1	3.8
80°-90°	192.2	0.5
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°	38228.2	100.0
0°-180°	38228.2	100.0

Coefficient of Utilization



REPORT NUMBER: P640720

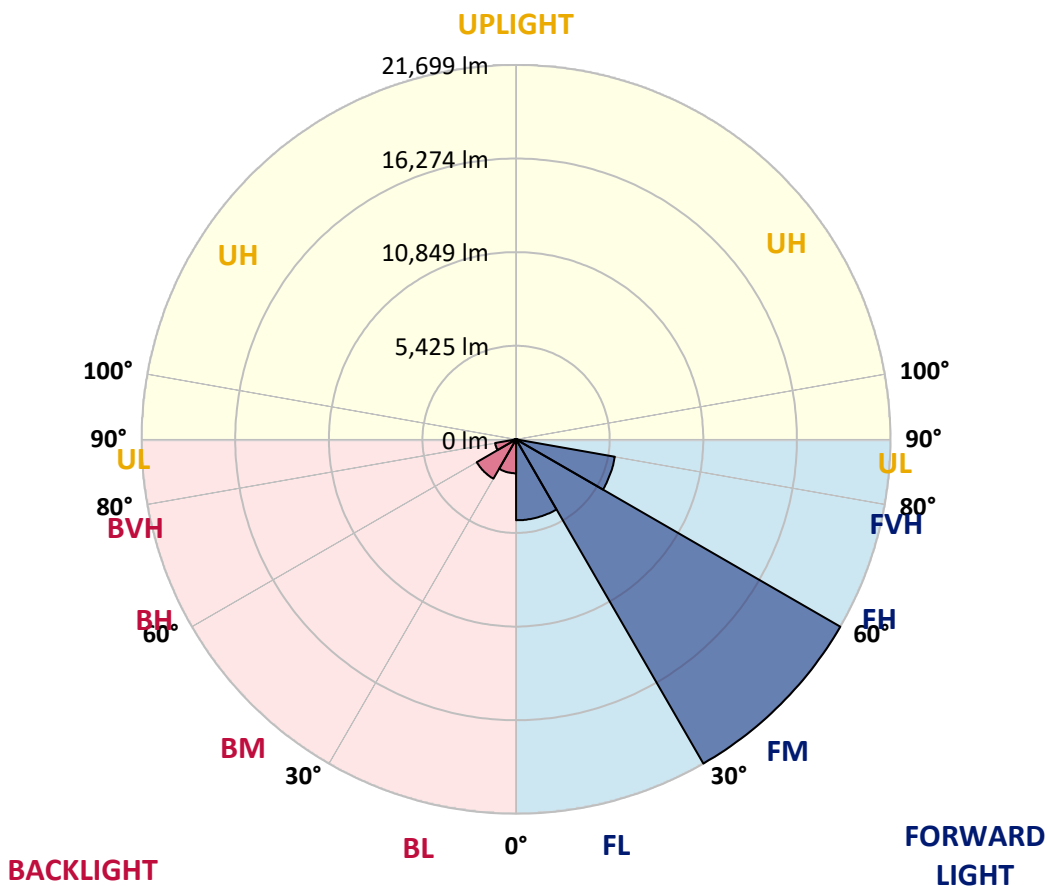
CATALOG NUMBER: GWS-SA5E-740-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4690.2	12.3			
FM (30°-60°)	21698.8	56.8			
FH (60°-80°)	5814.3	15.2			G3/7500
FVH (80°-90°)	92.0	0.2			G1/100
BL (0°-30°)	1968.3	5.1	B3/2500		
BM (30°-60°)	2630.4	6.9	B3/5000		
BH (60°-80°)	1234.0	3.2	B3/2500		G3/2500
BVH (80°-90°)	100.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P640720

CATALOG NUMBER: GWS-SA5E-740-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3
2.5°	10643.7	10554.9	10616.8	10506.5	10460.7	10339.6	10183.5	10078.6	9917.1	9707.2	9524.2
5°	11701.4	11639.5	11653.0	11534.5	11429.6	11227.7	10907.5	10729.9	10455.4	10032.8	9639.9
7.5°	11669.1	11741.8	11782.1	11884.4	11914.0	11895.2	11607.2	11359.6	11058.2	10423.1	9831.0
10°	10460.7	10598.0	10721.8	11071.6	11496.9	12035.1	12102.4	11954.4	11650.3	10920.9	10059.8
12.5°	9144.7	9249.7	9360.0	9779.9	10431.1	11507.6	12236.9	12328.4	12207.3	11413.4	10318.1
15°	8498.8	8547.3	8652.2	8929.4	9448.8	10643.7	12002.8	12403.8	12621.8	11935.5	10608.8
17.5°	8471.9	8493.5	8544.6	8692.6	9053.2	9976.3	11580.3	12253.1	12947.4	12487.2	10947.9
20°	9029.0	8972.5	8940.2	8937.5	9115.1	9753.0	11171.2	12010.9	13100.8	13052.4	11311.2
22.5°	9801.4	9820.2	9750.3	9578.0	9556.5	9911.7	10966.7	11766.0	13146.6	13552.9	11647.6
25°	10896.7	10990.9	10783.7	10455.4	10293.9	10371.9	11093.2	11690.6	13141.2	13970.1	11857.5
27.5°	12175.0	12247.7	12037.8	11607.2	11273.5	11085.1	11469.9	11914.0	13186.9	14330.7	11984.0
30°	13631.0	13655.2	13367.3	12915.1	12428.0	12024.3	12097.0	12374.2	13421.1	14804.4	12132.0
32.5°	15409.9	15512.2	15076.2	14360.3	13679.4	13162.7	12939.4	13117.0	13927.0	15364.1	12360.7
35°	17667.8	17702.8	17148.4	16123.1	15159.6	14443.7	13975.5	14069.7	14696.7	16147.3	12705.2
37.5°	19796.6	19831.5	19242.2	18289.5	16911.6	15932.0	15253.8	15210.7	15681.7	17253.4	13267.7
40°	21147.5	21247.1	20983.4	20385.9	19069.9	17748.5	16828.2	16680.1	16973.5	18607.0	14050.8
42.5°	21874.2	21917.2	21911.9	21989.9	21206.8	19893.4	18604.4	18308.3	18504.8	20068.4	14842.0
45°	21879.6	21987.2	22275.2	23026.0	23061.0	22242.9	20848.8	20385.9	20205.6	21540.5	15668.2
47.5°	20900.0	21015.7	21806.9	23284.4	24374.3	24560.0	23537.3	22608.9	21850.0	22808.0	16346.4
50°	17934.2	18224.9	19732.0	22345.1	24632.7	26416.9	26102.1	24842.6	23311.3	23787.6	16771.6
52.5°	15358.8	15348.0	16276.5	19691.6	23553.5	27235.1	28583.4	27140.9	24756.5	24409.3	16879.3
55°	11246.6	11308.5	12258.5	15060.0	20673.9	26443.9	29947.8	29256.2	26414.3	24740.3	16836.2
57.5°	5831.9	6138.7	7112.9	9610.3	15708.6	23720.3	29584.5	30044.7	28099.0	24974.5	16892.7
60°	2946.9	2887.7	3237.5	4588.5	9101.7	18526.3	27345.4	28812.1	28403.1	25157.5	16927.7
62.5°	1967.3	1951.1	1854.2	2126.1	3719.3	10972.1	23311.3	25367.4	26290.5	24726.9	16481.0
65°	1703.5	1671.2	1493.6	1482.9	1805.8	4550.8	17086.5	19941.9	21728.9	22813.4	15412.6
67.5°	1534.0	1485.5	1305.2	1216.4	1297.2	1999.6	9629.2	13375.3	16045.0	19293.3	13071.2
70°	1369.8	1345.6	1165.3	1036.1	1028.0	1219.1	3547.0	6903.0	9817.5	13162.7	9556.5
72.5°	1227.2	1184.1	1030.7	906.9	845.0	863.9	1539.4	2658.9	5081.0	8210.9	5716.1
75°	1063.0	1030.7	896.2	772.4	697.0	632.4	939.2	1229.9	2317.1	3902.3	2699.3
77.5°	820.8	799.3	707.8	613.6	570.5	471.0	570.5	775.1	1071.1	1644.3	1404.8
80°	476.3	489.8	527.5	479.0	419.8	336.4	371.4	446.7	643.2	890.8	796.6
82.5°	239.5	255.7	341.8	277.2	250.3	196.5	220.7	263.7	336.4	492.5	312.2
85°	18.8	18.8	61.9	70.0	86.1	70.0	88.8	107.6	153.4	196.5	105.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	8.1	13.5	24.2	45.8	29.6
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°	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3	9384.3
2.5°	9400.4	9263.2	9099.0	8964.4	8757.2	8646.9	8506.9	8334.7	8264.7	8232.4	8213.6
5°	9419.2	9177.0	8827.2	8504.2	8146.3	7863.7	7548.9	7220.5	7032.1	6986.4	6954.1
7.5°	9489.2	9150.1	8593.0	8060.2	7395.5	6779.2	6179.0	5584.3	5280.2	5164.4	5153.7
10°	9586.1	9139.4	8356.2	7470.8	6348.6	5374.4	4671.9	4206.4	4009.9	3945.3	3923.8
12.5°	9707.2	9131.3	8044.0	6652.7	5140.2	4219.8	3818.8	3743.5	3770.4	3765.0	3765.0
15°	9860.6	9142.0	7667.3	5726.9	4157.9	3662.7	3670.8	3759.6	3843.1	3856.5	3856.5
17.5°	10027.5	9131.3	7120.9	4798.4	3568.5	3530.9	3654.7	3778.5	3853.8	3864.6	3864.6
20°	10207.8	9080.2	6432.0	3923.8	3310.2	3447.4	3582.0	3678.9	3724.6	3735.4	3735.4
22.5°	10315.4	8934.8	5683.8	3321.0	3146.0	3315.6	3404.4	3504.0	3509.3	3423.2	3420.5
25°	10299.3	8663.0	4830.7	2933.4	2971.1	3119.1	3232.1	3162.2	3076.1	3027.6	3019.5
27.5°	10197.0	8253.9	3961.5	2640.1	2763.9	2930.7	2895.7	2836.5	2815.0	2761.2	2755.8
30°	10067.8	7750.7	3181.0	2411.3	2548.6	2702.0	2648.2	2642.8	2621.2	2562.0	2562.0
32.5°	9944.0	7231.3	2591.6	2241.8	2411.3	2422.1	2497.4	2502.8	2492.1	2389.8	2379.0
35°	9909.0	6711.9	2193.3	2107.2	2276.8	2271.4	2379.0	2376.3	2190.6	2048.0	2045.3
37.5°	10014.0	6184.4	1956.5	1996.9	2091.1	2161.0	2247.2	2091.1	2029.2	1943.1	1937.7
40°	10237.4	5697.3	1835.4	1932.3	1972.7	2074.9	1940.4	1951.1	1935.0	1870.4	1862.3
42.5°	10533.4	5282.9	1768.1	1910.8	1905.4	1932.3	1784.3	1827.3	1851.6	1803.1	1795.0
45°	10818.7	4922.2	1733.1	1830.0	1856.9	1700.8	1671.2	1711.6	1749.3	1730.4	1722.4
47.5°	11028.6	4610.0	1714.3	1719.7	1795.0	1622.8	1574.4	1593.2	1638.9	1647.0	1644.3
50°	11093.2	4343.6	1692.8	1628.2	1612.0	1544.8	1507.1	1501.7	1555.5	1593.2	1598.6
52.5°	10969.4	4106.8	1636.3	1547.4	1469.4	1480.2	1466.7	1439.8	1493.6	1544.8	1550.1
55°	10786.4	3972.2	1547.4	1469.4	1377.9	1421.0	1426.3	1402.1	1437.1	1472.1	1472.1
57.5°	10799.8	4050.3	1461.3	1396.7	1297.2	1353.7	1383.3	1372.5	1372.5	1399.4	1402.1
60°	10888.6	4163.3	1404.8	1305.2	1216.4	1275.6	1342.9	1332.2	1307.9	1342.9	1342.9
62.5°	10633.0	4012.6	1367.1	1216.4	1130.3	1200.3	1281.0	1275.6	1248.7	1305.2	1310.6
65°	9879.4	3608.9	1324.1	1106.1	1044.2	1124.9	1194.9	1213.7	1189.5	1264.9	1278.3
67.5°	8280.9	3035.7	1240.6	1001.1	958.1	1033.4	1100.7	1127.6	1108.8	1197.6	1208.4
70°	6173.6	2457.1	1108.8	885.4	853.1	920.4	982.3	993.1	995.7	1100.7	1111.5
72.5°	3937.2	1910.8	933.9	756.2	732.0	783.1	828.9	872.0	890.8	990.4	987.7
75°	2196.0	1421.0	750.8	640.5	597.4	637.8	691.6	742.8	796.6	941.9	958.1
77.5°	1264.9	998.4	594.8	514.0	462.9	505.9	551.7	624.4	785.8	912.3	896.2
80°	713.2	648.6	449.4	376.8	344.5	376.8	411.8	549.0	619.0	672.8	680.9
82.5°	333.7	363.3	306.8	231.4	231.4	253.0	285.3	425.2	468.3	382.2	333.7
85°	121.1	164.2	150.7	118.4	105.0	102.3	177.6	242.2	150.7	134.6	115.7
87.5°	32.3	45.8	43.1	29.6	16.1	13.5	0.0	0.0	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)